# lenovo

Lenovo H30 SeriesHardware Maintenance Manual



Machine Types: 90C2 [H30-00]; 90BJ [H30-05]; 90B8 [H30-50 ES]; 90B9 [H30-50 Non-ES]



## Lenovo H30 Series Hardware Maintenance Manual

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## Chapter 1. About this manual

This manual contains service and reference information for Lenovo H30 serious 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 card in this manual is only used for the machines which have the TV card. It is invalid for those machines which do not have TV card.

## **Important Safety Information**

Be sure to read all caution and danger statements in this book before performing any of the instructions.

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

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

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

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

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

执行任何说明之前,请确保已阅读本书中的所有警告和危险声明。

執行任何指示前,請確實閱讀本書中的所有警告及危險聲明。

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## **Chapter 2. Safety information**

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

## **General safety**

Follow these rules to ensure general safety:

- Observe good housekeeping in the area of the machines 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 between your feet.
  - 3. Use a slow lifting force. 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 causes hazards to the customer, or that makes the equipment unsafe.
- Before you start the machine, ensure that other service representatives and the customer's personnel are not in a hazardous position.
- Place removed covers and other parts in a safe place, away from all personnel, while you are servicing the machine.
- Keep your tool case away from walk areas so that other people will not trip 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, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with a nonconductive 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.
- Reinstall all covers correctly before returning the machine 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 the attached power cords, telecommunication systems, networks, and modems 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, near their equipment, rubber floor mats that contain small conductive fibers to decrease electrostatic discharges. Do not use this type of mat to protect yourself from electrical shock.

- 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 machine, unplug the power cord. If you cannot unplug it, ask the customer to power-off the wall box that supplies power to the machine and to lock the wall box in the off position.
- If you need to work on a machine 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 maintenance information. Use extreme care when measuring high voltages.

- Regularly inspect and maintain your electrical hand tools for safe operational condition.
- 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 moist floors, nongrounded power extension cables, power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. The surface is conductive; such touching can cause personal injury and machine damage.
- Do not service the following parts with the power on when they are removed from their normal operating places in a machine:
  - Power supply units
  - Pumps
  - Blowers and fans
  - Motor generators

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

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

- Send another person to get medical aid.

## Safety inspection guide

The intent of this inspection guide is to assist you in identifying potentially unsafe conditions on these products. Each machine, 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 unsafe conditions are present, you must determine how serious the apparent hazard could be and whether you can continue without first correcting the problem.

Consider these conditions 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 in 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 unsafe conditions, 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 machine, 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 to properly wired outlets any equipment that will be attached to this product.
- 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 systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.

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



#### CAUTION:

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

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

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



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

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

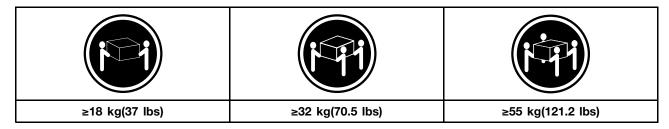




Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following:

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





#### **CAUTION:**

Use safe practices when lifting.



#### **CAUTION:**

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







#### CAUTION

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



## **Chapter 3. General information**

This chapter provides general information that applies to all machine types supported by this publication.

## **Specifications**

This section lists the physical specifications for your computer.

This section lists the physical specifications for your computer.

#### Type Lenovo H30 series

This section lists the physical specifications.

#### **Environment**

Air temperature:

Operating: 10° to 35°C Transit: -20° to 55°C

Humidity:

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

Electrical input:

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

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## **Chapter 4. General Checkout**

**Attention:** The drives in the computer you are servicing might have been rearranged or the drive startup sequence 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 program, 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 do receive the correct response, proceed to step 7.

- 6. Look at the following conditions and follow the instructions:
  - 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 is not 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 character (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:

- Strong passwords contain 7-16 characters, combine letters and numbers.
- Do not use your name or your user name.
- Do not use a common word or a common name.
- · Be 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 character (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 type 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 **Enter** key.
- 4. Type the new password, then press **Enter** key. Re-type the password to confirm the new password, if you type the new password correctly, the new password will be installed. A Setup Notice will display that changes have been saved.

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, Enter blank fields for each new password line item. A setup notice will display that changes have been saved.
- 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 character (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, and press the Enter key.
- 4. Re-type the password to confirm, if you type 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 type the new password correctly, the new password will be installed. A setup notice will display that changes have been saved.

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**, **Enter** blank fields for each new password line item. A setup notice will display that changes have been saved.
- 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 <b>Devices</b> options is used to enable or disable user access to the following devices:		
Serial Port Setup	Select this option to enable or disable <b>Serial Port</b> (com).	
USB Functions	Select whether to enable or disable <b>USB</b> (Universal Serial Bus) functions. If it is disabled, the <b>USB</b> keyboard and/or <b>USB</b> mouse may be not able to be used without device driver support.	
ATA Drive Setup	Select IDE, ACHI mode or disable SATA controller. Device driver support is required for ACHI mode. Depending on how the hard disk image was installed, changing this setting may prevent the system from booting.	
Video Setup	To configure video related functions. This option allows you to configure system's initiate graphic adapter from either IGD (Integrated Graphics Device) or PEG (PCI Express Graphics). Keep on the IGD enabled based on the setup options.	

Onboard Audio Controller	Select whether to enable or disable the <b>Onboard Audio Controller</b> , when feature is set to Disabled all devices connected to the audio connectors (e.g. a headphone or a microphone) are disabled and can't be used.
Onboard Ethernet Controller or LAN Boot Agent	Select whether to enable or disable <b>Onboard Ethernet Controller</b> , or select whether to enable or disable load onboard <b>PXE</b> ( <b>Preboot Execution Environment</b> ), or <b>SMC</b> ( <b>Secure Managed Client</b> ). This feature will allow the computer to boot from a server image.

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:

Serial Port Setup press the Enter key, and then select Serial Port Setup.

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

ATA Device Setup press the Enter key. Select Configure SATA as, press the Enter key and then select SATA mode.

Video Setup press the Enter key, and then select Video Setup.

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

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.

Note: If you do not want to save the settings, select Discard changes and Exit from the menu.

## 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 startup 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
  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 have the following causes.

Error	FRU/Action
The startup drive is not included in the boot sequence in configuration.	Check the configuration and ensure the startup drive is in the boot sequence.
No operating system installed on the boot drive.	Install an operating system on the boot drive.
The boot sector on the startup drive is corrupted.	<ul><li>The drive must be formatted. Do the following:</li><li>1. Attempt to back-up the data on the failing hard disk drive.</li><li>2. Use the operating system to format the hard disk drive.</li></ul>
The drive is defective.	Replace the hard disk drive.

## **Power Supply Problems**

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

Check/Verify	FRU/Action
Check that the following are properly installed:	Reseat connectors
Power Cord	
On/Off Switch connector	
System Board Power Supply connectors	
Microprocessor(s) connection	
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 system-board 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 <b>Keyboardless operation</b> in <b>Startup</b> option to <b>Enabled</b> . 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.

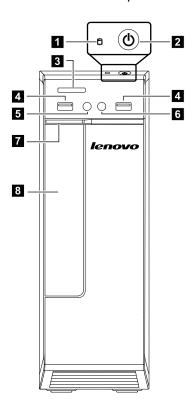
## Chapter 7. Locating connectors, controls and components

This section provides illustrations to help locate the various connectors, controls and components of the computer.

#### Font view

The following illustration shows the location of controls and components on the front of the computer.

Attention: Be careful not to block any air vents on the computer. Blocked air vents can cause overheating.

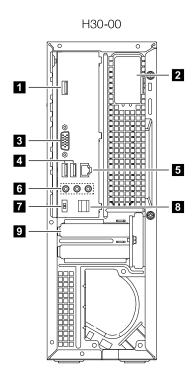


Hard disk drive indicator	5. Headphone connector
2. Power button	6. Microphone connector
3. Memory card reader (selected models only)	7. Optical drive eject button
4. USB 2.0 connectors (2)	8. Optical Drive (selected models only)

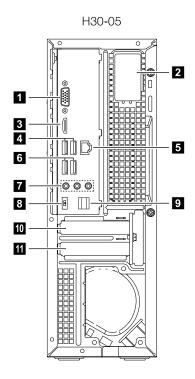
Attention: The effective range of the Built-in IR Emitter is 10 feet (3m).

#### Rear view

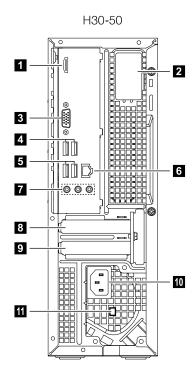
The following illustration shows the location of connectors and components on the rear of the computer.



1. USB 3.0 connector	6. Audio connectors
2. WiFi antenna (selected models only)	7. Power connector
3. On-board VGA connector	8. Cable clip
4. USB 2.0 connectors (2)	9. Expansion card slot
5. Ethernet connector	



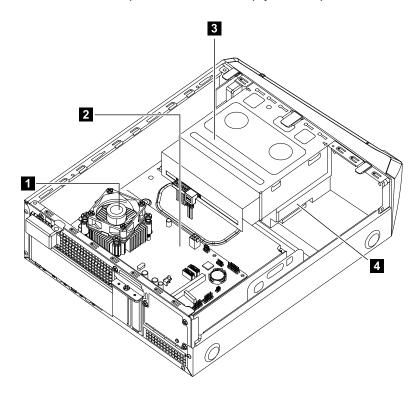
1. On-board VGA connector	7. Audio connectors
2. Wi-Fi antenna (selected models only)	8. Power connector
3. HDMI connector (selected models only)	9. Cable clip
4. USB 2.0 connectors (2)	10. PCI Express X 16 graphics adapter slot (some models are equipped with a graphics card)
5. Ethernet connector	11. PCI Express X 1 adapter slot (some models are equipped with USB 3.0 or TV tuner card)
6. USB 3.0 connectors (2)	



HDMI connector (selected models only)	7. Audio connectors
2. Wi-Fi antenna (selected models only)	8. PCI Express X 16 graphics adapter slot (some models are equipped with a graphics card)
3. On-board VGA connector	PCI Express X 1 adapter slot (some models are equipped with USB 3.0 or TV tuner card)
4. USB 3.0 connectors (2)	10. Power connector
5. USB 2.0 connectors (2)	11. Voltage selection switch (selected models only)
6. Ethernet connector	

#### **Hardware components**

The following illustration shows the components that make up your computer.

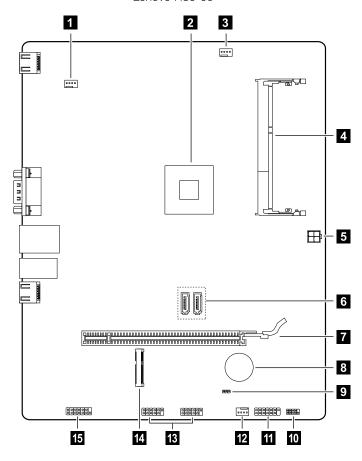


1. Heat-sink and CPU fan	3. Optical disk drive and bay
2. System board	4. Hard disk drive

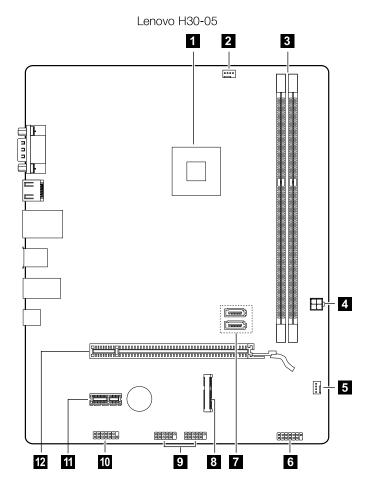
#### Identifying parts on the motherboard

The motherboard (sometimes called the planar or system board) is the main circuit board in your computer. It provides basic computing functions and supports a variety of devices that are factory-installed or that you can install later. The following illustration shows the location of connectors and components on the front of the motherboard.

#### Lenovo H30-00

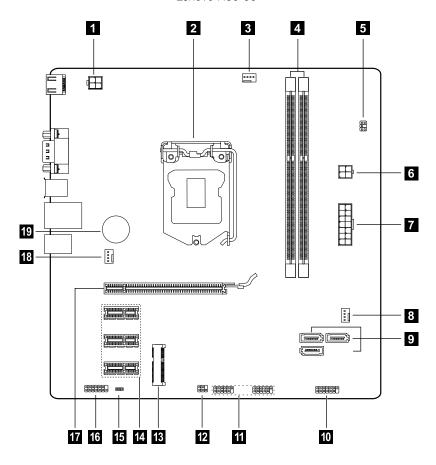


1. System fan header	9. Clear CMOS jumper
2. Microprocessor and heat sink	10. LPC debug header
3. Microprocessor fan header	11. Front panel connector
4. Memory connector	12. Power fan header
5. Hard disk and optical disk drive power connector	13. Front USB connectors (2)
6. SATA connectors (2)	14. Mini PCI-E slot
7. PCI express X 16 adapter slot	15. Front audio connector
8. Battery	



Microprocessor and heat sink	7. SATA connectors (2)
2. Microprocessor fan header	8. Mini PCI-E slot
3. Memory slots (2)	9. Front USB connectors (2)
4. Hard disk drive power connector	10. Front audio connector
5. Clear CMOS jumper	11. PCI express X 1 adapter slot
6. Front panel connector	12. PCI express X 16 adapter slot

#### Lenovo H30-50



1. 12V power connector	11. Front USB connectors (2)
2. Microprocessor and heat sink	12. LPC debug header
3. Microprocessor fan header	13. Mini PCI-E slot
4. Memory slots (2)	14. PCI express X 1 adapter slots (3)
5. Thermal sensor header	15. Clear CMOS jumper
6. Hard disk drive power connector	16. Front audio connector
7. Power connector	17. PCI express X 16 adapter slot
8. Power fan header	18. System fan header
9. SATA connectors (3)	19. Battery
10. Front panel connector	

## Chapter 8. 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 proceeding with the disassembly procedure, make sure that you do the following:

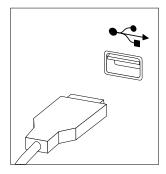
- 1. Turn off the power to the system and all peripherals.
- 2. Unplug all power and signal cables from the computer.
- 3. Place the system on a flat, stable surface.

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## Replacing the keyboard and mouse

#### To replace the keyboard and mouse

- 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.



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

Step 4. Disconnect the defective keyboard cable from the computer and connect the new keyboard cable to the same connector.

**Note:** The mouse can be replaced using the same method.

## Removing the computer cover

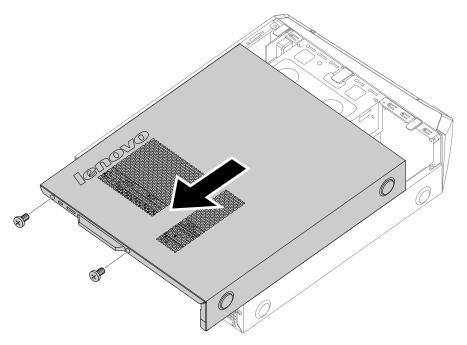
**Attention:** Turn off the computer and wait 3 to 5 minutes to let it cool down before removing the cover.

**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 computer screen from scratches or other damage.

#### To remove the computer cover:

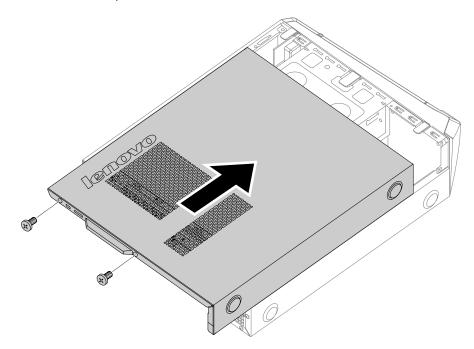
- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, 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 2 screws that secure the computer cover at the rear of the chassis.



Step 5. To reinstall the computer cover:

- a. Line up the computer cover with the chassis then slide it back.
- b. Secure the computer cover to the chassis with the screws.



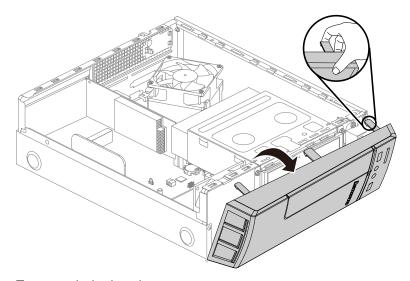
# Removing the front bezel

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 computer screen from scratches or other damage.

#### To remove the front bezel:

- 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the front bezel by releasing the three plastic tabs inside the chassis and pushing the bezel outward as shown.



Step 6. To reattach the bezel:

- Align the plastic tabs on the bottom of the bezel with the corresponding holes in the chassis. and then snap it into position at the bottom and top of the chassis.
- Step 7. Reattach the computer cover.

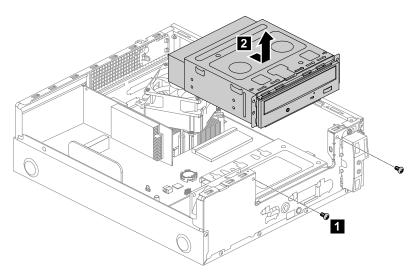
## Replacing an optical drive

**Note:** For this procedure, it helps to lay the computer flat.

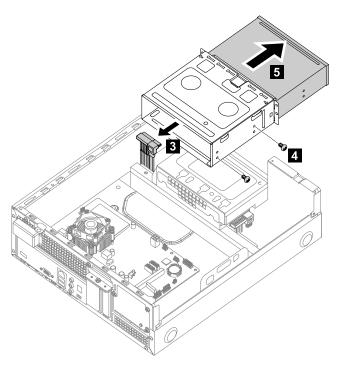
#### To replace an optical drive:

- 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the front bezel. Refer to "Removing the front bezel".

- Step 6. Remove the 2 screws that secure the optical disk drive bay to the chassis. 1
- Step 7. Slide out the optical disk drive bay, then lift it up. 2



- Step 8. Disconnect the data and power cables from the rear of the optical drive. 3
- Step 9. Remove the 2 screws that secure the optical drive to the optical drive bay 4 and push the optical drive straight out of the front of the drive bay. 5



Step 10. To install the new optical drive:

- a. Slide the new optical drive into the bay from the front, then attach it to the drive bay with the screws.
- b. Connect the data and power cables to the new optical drive.
- c. Slide the optical disk drive bay back, then push it in and reattach it to the chassis with the screws.

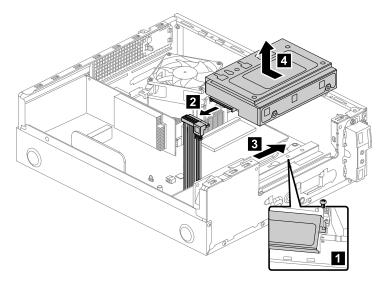
Step 11. Reattach the front bezel, computer cover.

### Replacing the hard disk drive

**Note:** For this procedure, it helps to lay the computer flat.

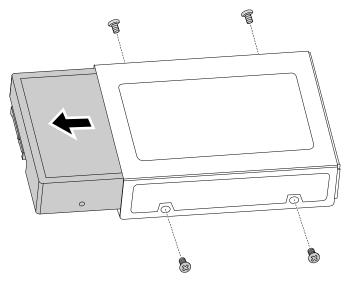
#### To replace the hard disk drive:

- 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the front bezel. Refer to "Removing the front bezel".
- Step 6. Remove the optical disk drive bay. Refer to "Replacing an optical drive".
- Step 7. Remove the screw that secures the hard disk drive bay to the chassis.
- Step 8. Slide out the hard disk drive bay, then lift it up. Disconnect the data and power cables from the hard disk drive.



Step 9. Remove the 4 screws that secure the hard disk drive to the bay.

Step 10. Slide the hard disk drive out of the bay.



Step 11. Install the new hard disk drive:

- a. Insert the new hard disk drive into the drive bay.
- b. Screw back the 4 screws on the drive bay.
- c. Attach the data and power cables to the new hard disk drive.
- d. Line up the hard disk drive bay, then slide it in. Reattach it to the chassis with the screws.

Step 12. Reattach the optical drive, front bezel and computer cover.

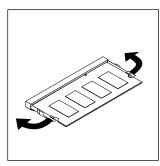
### Replacing a memory module

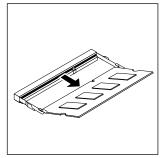
Note: For this procedure, it helps to lay the computer flat.

#### To replace an optical drive:

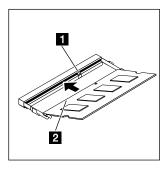
- Step 1. Remove any media (disks, CDs, DVDs, or memory cards) from the drives, shut down the operating system, and turn off the computer and all attached devices.
- Step 2. Unplug all power cords from electrical outlets.
- Step 3. Disconnect all cables attached to the computer. This includes power cords, 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Locate the memory module connectors. Refer to "Locating components".
- Step 6. For Lenovo H30-00 refer to the below instructions:

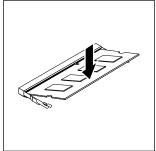
Step 7. Remove the memory module being replaced by opening the retaining clips as shown.





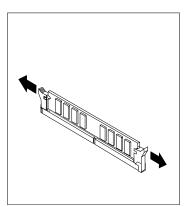
Step 8. Insert the notched end 1 of the new memory module into the slot. Press the memory module firmly and pivot the memory module until it snaps into place. Make sure that the memory module is secured in the slot and does not move easily.

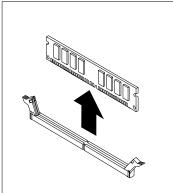




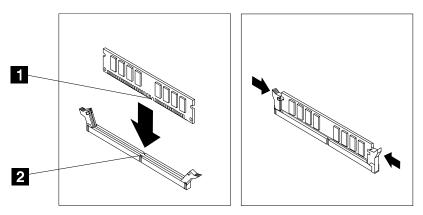
Step 9. For Lenovo H30-05 and H30-50 refer to the below instructions:

Step 10. Remove the memory module being replaced by opening the retaining clips as shown.





Step 11. Position the new memory module over the memory connector. Make sure the notch 1 on the memory module is correctly aligned with the connector key 2 on the system board. Push the memory module straight down into the connector until the retaining clips close.



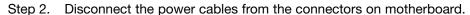
Step 12. Reattach the computer cover.

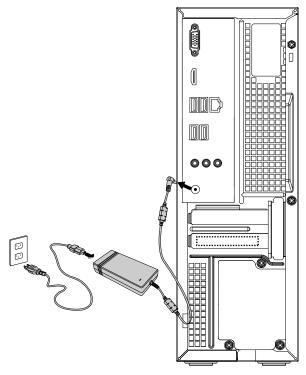
### Replacing the adapter

Note: For this procedure, it helps to lay the computer flat.

To replace the adapter:

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 3. Install the new adapter:

a. Connect the power cables to the connectors on the motherboard.

### Replacing the graphic card

To replace the graphic 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the screw that secures the graphic card to the chassis, and slide out the metal bracket. 1
- Step 6. Push the pin that lock the graphic card 2, and pull it up then slide it out to remove it. 3



- Step 7. To install the new graphic card:
  - a. Slide then insert the new graphic card to the same connector on the motherboard.
  - b. Reattach the metal bracket back into position and secure the graphic card to the chassis with the screw.
- Step 8. Reattach the computer cover.

## Replacing the microprocessor fan

To replace the microprocessor 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 computer cover. Refer to "Removing the computer cover".

- Step 5. Disconnect the fan power cable from the connector on the motherboard.
- Step 6. Remove the 4 screws that secure the microprocessor fan to the heat-sink and lift up the microprocessor fan to remove it.



- Step 7. To install the new microprocessor fan:
  - a. Line up the new microprocessor fan with the heat-sink and secure it to the heat-sink with 4 screws.
  - b. Connect the microprocessor fan power cable to the connector on the board.
- Step 8. Reattach the computer cover.

## Replacing the heat-sink

Note: For this procedure, it helps to lay the computer flat.

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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the microprocessor fan. Refer to "Replacing the microprocessor fan".

- Step 6. Remove the 4 screws that secure the heat-sink to the motherboard.
- Step 7. Lift up the heat-sink to remove it.



Step 8. Install the new heat-sink:

- a. Line up the screws on the new heat-sink with mounting holes on the motherboard and secure it with the 4 screws.
- b. Reattach the microprocessor fan to the heat-sink.
- c. Reconnect the microprocessor fan power cable to the connector on the motherboard.

Step 9. Reattach the computer cover.

## Replacing the Wi-Fi card

**Note:** For this procedure, it helps to lay the computer flat.

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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the graphic card. Refer to "Replacing the graphic card".

- Step 6. Disconnect the 2 antenna cables from the Wi-Fi card.
- Step 7. Remove the 2 screws that secure the Wi-Fi card to the motherboard.
- Step 8. Pull the Wi-Fi card upward to remove it from the card port.



Step 9. Install the new Wi-Fi card:

- a. Line up the new Wi-Fi card, then insert it into the same card port.
- b. Secure the Wi-Fi card to the motherboard with the 2 screws.
- c. Connect the 2 antenna cables to the new Wi-Fi card.

Step 10. Reattach the computer cover.

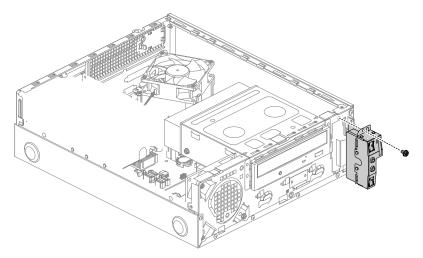
## Replacing the front USB/card reader/audio module

Note: For this procedure, it helps to lay the computer flat.

To replace the the front USB/card reader/audio 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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the front bezel. Refer to "Removing the front bezel".
- Step 6. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 7. Remove the hard disk drive. Refer to "Replacing the hard disk drive".
- Step 8. Remove the power supply. Refer to "Replacing the power supply".
- Step 9. Disconnect the data cables from the connectors on motherboard.
- Step 10. Remove the screw that secures the front USB/card reader/audio module to the chassis.

Step 11. Slide out the front USB/card reader/audio module out of chassis.



Step 12. Install the new front USB/card reader/audio module:

- Slide the front USB/card reader/audio module in and secure it with screw.
- Connect the data cables to the motherboard.
- Reattach the power supply, hard disk drive and optical drive.

Step 13. Reattach the front bezel, computer cover.

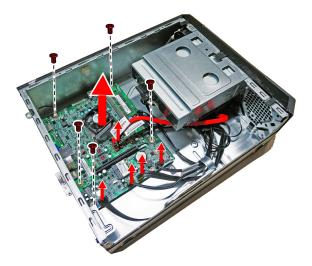
### Replacing the motherboard

**Note:** For this procedure, it helps to lay the computer flat.

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 computer cover. Refer to "Removing the computer cover".
- Step 5. Remove the front bezel. Refer to "Removing the front bezel".
- Step 6. Remove the memory module. Refer to "Replacing a memory module".
- Step 7. Remove the optical drive. Refer to "Replacing the optical drive".
- Step 8. Remove the hard disk drive. Refer to "Replacing the hard disk drive".
- Step 9. Remove the microprocessor fan. Refer to "Replacing the microprocessor fan".
- Step 10. Remove the heat-sink. Refer to "Replacing the heat-sink".
- Step 11. Remove the graphic card. Refer to "Replacing the graphic card".
- Step 12. Remove the Wi-Fi card. Refer to "Replacing the Wi-Fi card".

- Step 13. Disconnect the all cables from the connectors on motherboard.
- Step 14. Remove the 5 screws that secure the motherboard to the chassis.
- Step 15. Lift up the motherboard to remove it.



Step 16. Install the new motherboard:

- a. Line up the holes on the new motherboard with mounting holes on the chassis and secure it with screws.
- b. Reattach the memory module, Wi-Fi card, heat-sink and microprocessor fan to the new motherboard.
- c. Connect the all cables to the new motherboard.
- d. Reattach the hard disk drive, optical drive and graphic card.

Step 17. Reattach the front bezel, computer cover.

# Chapter 9. FRU lists-H30-00

This chapter lists the information on the field replaceable units (FRUs).

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

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

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

Item #	Description	Lenovo PN	CRU ID
	МВ		
	NOK E New BT-D J1800 MB	5B20G18373	N
	W8S E New BT-D J1800 MB	5B20G18368	
	W8P E New BT-D J1800 MB	5B20G18367	
	NOK E New BT-D J1900 MB	5B20G18375	
	W8S E New BT-D J1900 MB	5B20G18374	
	W8P E New BT-D J1900 MB	5B20G18371	
	NOK E New BT-D J2900 MB	5B20G18372	
	W8S E New BT-D J2900 MB	5B20G18369	
	W8P E New BT-D J2900 MB	5B20G18370	
	Cooler		N
	AVC ZEUK00T004 Intel 18W CPU Cooler	31503528	
	Fox PKP737R00K12Z intel 18W CPU Cooler	31503529	
	Memory		2
	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	
	Mic_S D9PXV 2GB D3L-1600S Memory	1100958	
	M471B5173DB0-YK0 4GB D3L-1600S Memory-HF	1100942	
	HMT451S6BFR8A-PB 4GB D3L-1600S Memory-HF	1100985	
	MT8KTF51264HZ-1G6E1 4GB D3L-1600S Memory-HF	1100957	
	Mic_R D9QBJ 4GB D3L-1600S Memory-HF	1100967	
	Mic_S D9QBJ 4GB D3L-1600S Memory	1100959	
	M471B1G73DB0-YK0 8GB D3L-1600S Memory-HF	1100943	
	HMT41GS6BFR8A-PB 8GB D3L-1600S Memory-HF	1100986	
	MT16KTF1G64HZ-1G6E1	1100635	

Mic_R D9QBJ 8GB D3L-1600S Memory-HF	1101012	
HDD		2
WD XL500A WD5000AAKX-08U6AA0 500G HDD-LH	16200544	
Seagate Pharaoh 4K Non-MC ST500DM002 500G HDD	16200674	
Toshiba Mars 4K 500G DT01ACA050 HDD-LH	16200512	
Seagate Grenada BP 1.5 ST1000DM003 1TB HDD	16200528	
Toshiba Mars 4K 1TB DT01ACA100HDD-LH	16200513	
WD XL1000B WD10EZEX-08M2NA0 1TB HDD	16200613	
Seagate Grenada BP2 ST1000DM003 1TB HDD	16200688	
ODD		2
PLDS DH-16D7SH HH SATA Black DVDROMLH	25205800	
HLDS DH50N SATA Black DVDROM LH	25210649	
HLDS DH60N SATA Black DVDROM LH	25216229	
Panasonic SW430 SATA Black DVDROM LH	25214498	
Panasonic SW440 SATA Black DVDROMLH	25216356	
TSST SH-116CB SATA Black DVDROM LH	25216227	
HLDS GHB0N SATA Black DVDRW LH	25214470	
PLDS DH-16AESH SATA Black DVDRWLH(LSOPU)	25213061	
TSST SH-216DB SATA Black DVDRWLH	25213720	
Panasonic SW830 SATA Black DVDRWLH	25213885	
Dis GFX		2
BITLAND@R5 235@1G/A/DB/H Graphics	11202403	
MSI@R5 235@1G/A/DB/H Graphics	11202404	
BITLAND@R5 235@1G/A/DB/H LP Graphics	11202405	
MSI@R5 235@1G/A/DB/H LP Graphics	11202406	
BITLAND@R5 235@2G/A/DB/H Graphics	11202748	
BITLAND@R5 235@2G/A/DB/H LP Graphics	11202749	
BITLAND@Geforce GT 705@1G/A/DB/H Graphics	11202742	
MSI@Geforce GT 705@1G/A/DB/H Graphics	11202743	
BITLAND@Geforce GT 705@1G/A/DB/H LP Graphics	11202744	
MSI@Geforce GT 705@1G/A/DB/H LP Graphics	11202745	
VIDEO_CARD B@Geforce GT 705@1G/A/DB/H	SV10G52014	
VIDEO_CARD M@Geforce GT 705@1G/A/DB/H	SV10G52015	
VIDEO_CARD B@Geforce GT 705@1G/A/DB/H LP	SV10G52019	
VIDEO_CARD M@Geforce GT 705@1G/A/DB/H LP	SV10G52020	
VIDEO_CARD B@Geforce GT 705@2G/A/DB/H	SV10G56197	
VIDEO_CARD M@Geforce GT 705@2G/A/DB/H	SV10G56198	
I VIDEO_CAND INGGENICE OF 703@2G/A/DD/TI		
VIDEO_CARD B@Geforce GT 705@2G/A/DB/H LP VIDEO_CARD M@Geforce GT 705@2G/A/DB/H LP	SV10G56199 SV10G56200	

MSI@Geforce GT 720@2G/A/DB/H LP Graphics	11202747	
Power supply		1
Delta ADP-65FD BE 65W adapter	36200352	
Liteon PA-1650-72IA 65W adapter	36200353	
DELTA ADP-90XD BC 90W common adapter ®	36200415	
Liteon PA-1900-72IA 90w common adapter®	36200416	
Wifi		N
Ltn RTL8723BE 1x1BGN+BT HMC WLAN	20200440	
Liteon WB335 1x1BGN+BT4.0 HMC WLAN	20200437	
Screw		N
JT M2X3 antiskid Screw	31501076	
WIFI Antenna		N
LS X315 Front Antenna	31507039	
LS X315 Rear Antenna	31507040	
LS 326CT Antenna 550mm Front	SA30G18119	
LS 326CT Antenna 400mm Rear	SA30G18120	
Antenna Cover		N
JT Wi-Fi cover	31501130	
Rear I/O shield		N
MACE Bay trail MB Rear IO cover	SM20F86382	
PSU rear hole shielding		N
JT 20L chassis PSU cover	31505051	
JT 314 chassis power supply cover	31506508	
AVC ATX power supply cover	31506616	
326 chassis power cover	31501626	
Card Reader		N
Bitland RTS5179 7in1 L_Single_CR	11201223	
Taisol GL827S 7in1 L_Single_CR	11201222	
Taisol GL827S 7in1 Single_S Reader	11200646	N
BITLANDRTS5179 7in1 Single_S Reader	11201119	
Speaker		1
Lenovo Speaker M0620 ( Black )	25013742	
Front USB&Audio cable		N
LS USB2.0 F_IO cable_U500A600_321HT	31507416	
CL USB2.0 F_IO cable_U500A600_321HT	31507417	
LS USB2.0 F_IO cable_U500A600_326CT	31507414	
MGE SB2.0 F_IO cable_U500A600_326CT	31507415	

Cable		N
LCS 370mmSATA cable®	31034778	
GX 370mmSATA cable(R)	31034820	
LS 2H285 SATA cable,angle,No Latch(R)	31032989	
GX 2H285 SATA cable,angle,No Latch®	31033053	
CL 2H420mmSATA calbe Latch(R)	31506478	
LX 2H420mmSATA calbe Latch(R)	31024760	
MGE 2H420mmSATA calbe Latch(R)	31506479	
LX 250mm SATA cable 2 latch	31043145	
GS 250mm SATA cable 2 latch	31043146	
LCS SATA power cable(300mm_300mm)	31502005	
GX SATA power cable(300mm_300mm)	31502006	
Touch Pad		N
Chicony TGR1226 2.4G touchpad BLACK	25210789	
VGA Cover		N
JT VGA□ Rubber cover	31049015	
MACE VGA ☐ Rubber cover - Optional	31505052	
KB & Mouse		1
Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111	
Primax KB4721(US) B-Silk USB KB-LVT8	25209112	
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	
	Liteon LXH-SM-8825 B-Silk Mouse	25200528	
	Sunrex LXH-EMS-10ZA B-Silk Mouse	25200530	
	Primax M300 USB gesture mouse BLK	25213876	
	Primax M300 USB gesture mouse BLK-Israel	25214502	
	Chassis For H30-00		N
	JT LX-326CT chassis	30500528	
	JT LX-326CT Chassis	5C80G59892	]
	JT LX-326CT Chassis F/Bezel	5CB0G59895	]
	JT LX-326CT USB&CR Bracket	5B40G59896	
	JT 328BT-23L Wlan Antenna Cover	5CB0G59219	]
	JT H81.0MB rearIO shielding	31504156	
	LS 600mm 321HT&326CT LED cable	31507411	
	JT 600mm 321HT&326CT LED cable	31507412	
	MGE 600mm 321HT&326CT LED cable	31507413	1
	MACE LX-326CT2 chassis	30500529	1 1
	MACE LX-326CT2 Chassis	5C80G59898	1 1
	MACE LX-326CT2 Chassis F/Bezel	5CB0G59897	1
	MACE LX-326CT2 USB&CR Bracket	5B40G59899	1 1
	JT 328BT-23L Wlan Antenna Cover	5CB0G59219	1 1
	JT H81.0MB rearIO shielding	31504156	
	LS 600mm 321HT&326CT LED cable	31507411	1 1
	JT 600mm 321HT&326CT LED cable	31507412	1
	MGE 600mm 321HT&326CT LED cable	31507413	
	Power Cord		1
	Longwell Black single head 1.0M3wire ULCSA Power cord	31033857	1 1
	Volex 1.0M C5US Power cord	31033858	1 1
	Luxshare 1.0M C5 US Power cord	31049517	
	Longwell Black single head 1.0M SAA Power cord	31035397	
	Volex 1.0M C5 Macao Power cord	31049500	1
	Luxshare 1.0M C5 Macao Power cord	31049520	1
	Longwell 1.0M C5 2pin Japan power cord	31503423	1
	Volex 1.0M C5 2pin Japan power cord	31503424	1
	Luxshare 1.0M C5 2pin Japan power cord	31503425	1
	Grandsun Black single head 1.0M3wire CCC Power cord(R)	31032953	1
<b></b>		1	

Luxshare 1.0M C5 CCC Power cord	31045147
Longwell Black 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 Black 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 Black single head 1.0M India Power cord	31035395
Luxshare 1.0M C5 India Power cord	31503353
Longwell Black 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 Black 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 Black single head 1.0M Argentina C5 Power cord®	31039100
Volex 1.0M C5 Latin America Power cord	31049507
Luxshare 1.0M C5 Latin America Power cord	31503356
Longwell Black 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 Black single head 1.0M Switzerland C5 Power cord®	31039103
Volex 1.0M C5 Switzerland Power cord	31049508
Luxshare 1.0M C5 Switzerland Power cord	31503361
Longwell Black 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 Black single head 1.0M Taiwan C5 Power cord®	31038885
Volex 1.0M C5 Taiwan Power cord	31049499
Longwell Black 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 Black 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
LW BLK1.8M UL CSA Power Cord(R)	31026357
GS BLK1.8M UL power cord®	31033217
VL BLK1.8M UL CSA Power Cord®	31026145
Luxshare 1.8M C13 US Power cord	31049521
LW BLK1.8M ANE Power Cord®	31026350

VL BLK1.8M ANE Power Cord®	31026140
Luxshare 1.8M C13 Macao Power cord	31049524
LW 1.8M JAPAN Power Cord®	31039730
Volex 1.8M C13 Japan Power cord	31049514
Luxshare 1.8M C13 Japan Power cord	31049523
Grandsun Black single head 1.8MCCC Power cord(R)	31028776
LX(ASAP) 1.8M CCC C13 power cord®	31040179
LW BLK1.8M BS Power Cord®	31026096
VL BLK1.8M BS Power Cord(R)	31026082
LW BLK1.8M VDE Power Cord®	31026355
VL BLK1.8M VDE Power Cord®	31026144
Luxshare 1.8M C13 Europe Power cord	31049522
Longwell Black single head 1.8MIndia Power cord®	31033216
LW BLK1.8M BSMI Power Cord®	31026349
VL BLK1.8M BSMI Power Cord®	31026146
LW BLK1.8M SABS Power Cord®	31031394
Volex 1.8M C13 South Africa Power cord	31049509
Longwell Black single head 1.8M C13 IRAM Power cord®	31036980
Volex 1.8M C13 Latin America Power cord	31049515
Longwell Black single head 1.8M C13 Brazil Power cord®	31038784
Volex 1.8M C13 Brazil Power cord	31049513
Longwell Black single head 1.8M C13 Korea Power cord®	31026351
VL BLK1.8M KTL Power Cord®	31026143
Longwell 1.8M Italy C13 power cord®	31039726
Volex 1.8M C13 Italy Power cord	31049512
Longwell 1.8M Denmark C13 power cord®	31039729
Volex 1.8M C13 Denmark Power cord	31049511
Longwell 1.8M SEV C13 power cord®	31039732
Volex 1.8M C13 Switzerland Power cord	31049516
Longwell 1.8M Israel C13 power cord®	31039728
Volex 1.8M C13 Israel Power cord	31049510

# Chapter 10. FRU lists-H30-05

This chapter lists the information on the field replaceable units (FRUs).

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

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

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

Item #	Description	Lenovo PN	CRU ID
	MB		
	NOK MSI Beema A8-6410 MB	5B20G06133	N
	W8S MSI Beema A8-6410 MB	5B20G06117	
	W8P MSI Beema A8-6410 MB	5B20G06125	
	NOK MSI Beema A6-6310 MB	5B20G06126	
	W8S MSI Beema A6-6310 MB	5B20G06127	
	W8P MSI Beema A6-6310 MB	5B20G06128	
	NOK MSI Beema A4-6210 MB	5B20G06129	
	W8S MSI Beema A4-6210 MB	5B20G06124	
	W8P MSI Beema A4-6210 MB	5B20G06123	
	NOK MSI Beema E2-6110 MB	5B20G06122	
	W8S MSI Beema E2-6110 MB	5B20G06132	
	W8P MSI Beema E2-6110 MB	5B20G06131	
	NOK MSI Beema E1-6010 MB	5B20G06130	
	W8S MSI Beema E1-6010 MB	5B20G06134	
	W8P MSI Beema E1-6010 MB	5B20G06135	
	Thermal		N
	Taisol CECA022836A6 AMD 18W cooler	31501864	
	AVC ZEUK00T001 AMD 18W cooler	31501863	
	RAM		2
	M378B5773QB0-CK0 2GB D3 -1600 Memory-HF	1100908	
	HMT425U6AFR6C-PB 2GB D3 -1600 Memory-HF	1100653	
	MT4JTF25664AZ-1G6E1 2GB D3-1600 Memory	1100954	
	Mic_R D9PSH 2GB D3L-1600 Memory-HF	1100966	
	Mic_S D9PXV 2GB D3-1600 Memory	1100792	
	M378B5173DB0-CK0 4GB D3 -1600 Memory-HF	1100944	
	HMT451U6BFR8C-PB 4GB D3-1600 Memory-HF	1100988	

MT8JTF51264AZ-1G6E1 4GB D3-1600 Memory	1100955	
Mic_R D9QBJ 4GB D3L-1600 M2 Memory	1100807	
Mic_S D9QBJ 4GB D3-1600 M2 Memory	1100682	
M378B5773QB0-CK0 2GB D3 -1600 Memory-HF	1100908	
M378B5173DB0-CK0 4GB D3 -1600 Memory-HF	1100944	
HMT425U6AFR6C-PB 2GB D3 -1600 Memory-HF	1100653	
HMT451U6BFR8C-PB 4GB D3-1600 Memory-HF	1100988	
Mic_R D9PSH 2GB D3L-1600 Memory-HF	1100966	
Mic_R D9QBJ 4GB D3L-1600 M2 Memory	1100807	
M378B1G73DB0-CK0 8GB D3 -1600 Memory-HF	1100945	
HMT41GU6BFR8C-PB 8GB D3-1600 Memory-HF	1100989	
MT16JTF1G64AZ-1G6E1 8GB D3-1600 Memory	1100669	
Mic_R D9QBJ 8GB D3L-1600 Memory-HF	1101011	
HDD		2
WD XL500A 6G Damper	16200544	
Seagate Pharaoh 4K-Non-MC	16200674	
Toshiba Mars	16200512	
Seagate Grenada BP 1.5	16200528	
Toshiba Mars	16200513	
WD XL1000B	16200613	
Seagate Grenada BP 2	16200688	
ODD		2
PLDS DH-16D7SH HH SATA Black DVDROMLH	25205800	
HLDS DH50N SATA Black DVDROMLH	25210649	
HLDS DH60N SATA Black DVDROMLH	25216229	
Panasonic SW430 SATA Black DVDROMLH	25214498	
Panasonic SW440 SATA Black DVDROMLH	25216356	
TSST SH-116CB SATA Black DVDROMLH	25216227	
HLDS GHB0N SATA Black DVDRWLH	25214470	
PLDS DH-16AESH SATA Black DVDRWLH(LSOPU)	25213061	
TSST SH-216DB SATA Black DVDRWLH	25213720	
Panasonic SW830 SATA Black DVDRWLH	25213885	
 •	•	

Dis GFX			2
BITLAND@R5 235@	01G/A/DB/H Graphics	11202403	
MSI@R5 235@1G/A	V/DB/H Graphics	11202404	
BITLAND@R5 235@	1G/A/DB/H LP Graphics	11202405	
MSI@R5 235@1G/A	VDB/H LP Graphics	11202406	
BITLAND@R5 235@	2G/A/DB/H Graphics	11202748	
BITLAND@R5 235@	2G/A/DB/H LP Graphics	11202749	
MSI@Geforce GT 7	20@2G/A/DB/H Graphics	11202746	
MSI@Geforce GT 7	20@2G/A/DB/H LP Graphics	11202747	
BITLAND@Geforce	GT 705@1G/A/DB/H Graphics	11202742	
MSI@Geforce GT 7	05@1G/A/DB/H Graphics	11202743	
VIDEO_CARD B@G	eforce GT 705@1G/A/DB/H	SV10G52014	
VIDEO_CARD M@G	Geforce GT 705@1G/A/DB/H	SV10G52015	
VIDEO_CARD B@G	eforce GT 705@2G/A/DB/H	SV10G56197	
VIDEO_CARD M@G	Geforce GT 705@2G/A/DB/H	SV10G56198	
BITLAND@Geforce	GT 705@1G/A/DB/H LP Graphics	11202744	
MSI@Geforce GT 7	05@1G/A/DB/H LP Graphics	11202745	
VIDEO_CARD B@G	eforce GT 705@1G/A/DB/H LP	SV10G52019	
VIDEO_CARD M@G	Geforce GT 705@1G/A/DB/H LP	SV10G52020	
VIDEO_CARD B@G	eforce GT 705@2G/A/DB/H LP	SV10G56199	
VIDEO_CARD M@G	Geforce GT 705@2G/A/DB/H LP	SV10G56200	
Adapter			1
Delta ADP-65FD B	E 65W adapter	36200352	
Liteon PA-1650-72I	A 65W adapter	36200353	
DELTA ADP-90XD E	BC 90W common adapter ®	36200415	
Liteon PA-1900-72I	A 90w common adapter®	36200416	
DELTA ADP-120ZB	BBHT common 120W adapter	36200439	
Liteon PA-1121-04l	_B 120w common adapter	36200440	
WIFI			N
Ltn RTL8723BE 1x	1BGN+BT HMC WLAN	20200440	
Liteon WB335 1x1E	BGN+BT4.0 HMC WLAN	20200437	
Screw			N
JT M2X3 antiskid S	screw	31501076	
WIFI Antenna			N
LS X315 Front Ante	enna	31507039	
LS X315 Rear Ante	nna	31507040	
LS 326CT Antenna	550mm Front	SA30G18119	
LS 326CT Antenna	400mm Rear	SA30G18120	
JT Wi-Fi cover		31501130	

Shield		N
HH LX-319 chassis ODD Hardware baffle ( R )	31046268	
JT Redang chassis ODDHardware baffle ( R )	31040441	
MACE Beema MB Rear IO cover	SM20F86380	
JT 20L chassis PSU cover	31505051	
JT 314 chassis power supply cover	31506508	
AVC ATX power supply cover	31506616	
326 chassis power cover	31501626	
Card Reader		N
Bitland RTS5179 7in1 L_Single_CR	11201223	
Taisol GL827S 7in1 L_Single_CR	11201222	
Taisol GL827S 7in1 Single_S Reader	11200646	
BITLANDRTS5179 7in1 Single_S Reader	11201119	
Speaker		1
Lenovo Speaker M0620(Black)	25013742	
Cable		N
LS USB2.0 F_IO cable_U500A600_321HT	31507416	
CL USB2.0 F_IO cable_U500A600_321HT	31507417	
LS USB2.0 F_IO cable_U500A600_326CT	31507414	
MGE SB2.0 F_IO cable_U500A600_326CT	31507415	
LCS 370mmSATA cable®	31034778	
GX 370mmSATA cable(R)	31034820	
LS 2H285 SATA cable,angle,No Latch(R)	31032989	
GX 2H285 SATA cable,angle,No Latch®	31033053	
CL 2H420mmSATA calbe Latch(R)	31506478	
LX 2H420mmSATA calbe Latch(R)	31024760	
MGE 2H420mmSATA calbe Latch(R)	31506479	
LX 250mm SATA cable 2 latch	31043145	
GS 250mm SATA cable 2 latch	31043146	
LCS SATA power cable(300mm_300mm)	31502005	
GX SATA power cable(300mm_300mm)	31502006	
Chicony TGR1226 2.4G touchpad BLK final	25212969	
Cover		N
JT VGA Rubber cover	31049015	
MACE VGA Rubber cover - Optional	31505052	
JT HDMI Rubber cover	31049017	

KB & Mouse		1
Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111	
Primax KB4721(US) B-Silk USB KB-LVT8	25209112	
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) B-Silk USB KB-OKE8	25209140	
Primax KB4721(US) B-Silk USB KB-OKE8	25209141	
Chicony KU-1153 B-Silk USB KB-OKE8	25209142	
Sunrex EKB-10YA(US) B-S USB KB-LVT8 LH	25209143	
Sunrex EKB-10YA(US) B-S USB KB-OKE8 LH	25209144	
Liteon LXH-SM-8825 B-Silk Mouse	25200528	
Sunrex LXH-EMS-10ZA B-Silk Mouse	25200530	
Primax M300 USB gesture mouse BLK	25213876	
Primax M300 USB gesture mouse BLK-Israel	25214502	
Liteon SK-8861(US) 2.4G KB- Black 8	25209175	
Liteon SK-8861(US-MY) 2.4G KB- Black 8	25209176	
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Liteon SK-8861(TW) 2.4G KB- Black 8	25209177	
Liteon SK-8861(TH) 2.4G KB- Black 8	25209178	
Liteon SK-8861(CS-SK) 2.4G KB- Black 8	25209179	
Liteon SK-8861(US-IN) 2.4G KB- Black 8	25209180	
Liteon SK-8861(RU) 2.4G KB- Black 8	25209181	
Liteon SK-8861(GB) 2.4G KB- Black 8	25209182	
Liteon SK-8861(Nordic) 2.4G KB- Black 8	25209183	
Liteon SK-8861(LA) 2.4G KB- Black 8	25209184	
Liteon SK-8861(LA-AR) 2.4G KB- Black 8	25209185	
Liteon SK-8861(SA) 2.4G KB- Black 8	25209186	
Liteon SK-8861(CH) 2.4G KB- Black 8	25209187	
Liteon SK-8861(DE) 2.4G KB- Black 8	25209188	
Liteon SK-8861(TR) 2.4G KB- Black 8	25209189	
Liteon SK-8861(ES) 2.4G KB- Black 8	25209190	
Liteon SK-8861(SL) 2.4G KB- Black 8	25209191	
Liteon SK-8861(IT) 2.4G KB- Black 8	25209192	
Liteon SK-8861(IL) 2.4G KB- Black 8	25209193	
Liteon SK-8861(FR) 2.4G KB- Black 8	25209194	
Liteon SK-8861(GR) 2.4G KB- Black 8	25209195	
Liteon SK-8861(HU) 2.4G KB- Black 8	25209196	
Liteon SK-8861(BG) 2.4G KB- Black 8	25209197	
Liteon SK-8861(KR) 2.4G KB- Black 8	25209198	
Liteon SK-8861(JP) 2.4G KB- Black 8	25209199	
Liteon SK-8861(EN-FR) 2.4G KB- Black 8	25209200	
Liteon SK-8861(PT) 2.4G KB- Black 8	25209201	
Liteon SK-8861(BE-EN) 2.4G KB- Black 8	25209202	
Liteon SK-8861(DU) 2.4G KB- Black 8	25209203	
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	25-205773	
Chassis		N
JT LX-326CT chassis	30500528	
JT LX-326CT Chassis	5C80G59892	
JT LX-326CT Chassis F/Bezel	5CB0G59895	
JT LX-326CT USB&CR Bracket	5B40G59896	
JT 328BT-23L Wlan Antenna Cover	5CB0G59219	
JT H81MB rearlO shielding	31504156	
LS 600mm 321HT&326CT LED cable	31507411	
 JT 600mm 321HT&326CT LED cable	31507412	

MGE 600mm 321HT8326CT LED cable 31507413  MACE LX-326CT2 Chassis 5050059898  MACE LX-326CT2 Chassis F/Bezel 5050059897  MACE LX-326CT2 Chassis F/Bezel 5050059897  MACE LX-326CT2 Chassis F/Bezel 5050059897  MACE LX-326CT2 Chassis F/Bezel 5050059899  JT 328BT-23L Wian Antenna Cover 50500598219  JT H8IMB rearlO shielding 31504156  LS 600mm 321HT8326CT LED cable 31507411  JT 600mm 321HT8326CT LED cable 31507412  MGE 600mm 321HT8326CT LED cable 31507413  Power Cord 100mm 31000557  Longwell Black single head 1.0m SAN Power cord 31003857  Volex 1.0M C5 US Power cord 31049517  Longwell Black single head 1.0m SAN Power cord 31049517  Longwell Black single head 1.0m SAN Power cord 31049500  Luxshare 1.0M C5 Macao Power cord 31503423  Volex 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 31503424  Luxshare 1.0M C5 CC Power cord 31045147  Longwell Black single head 1.0m ASTA Power cord 31045147  Longwell Black single head 1.0m ASTA Power cord 31035396  Volex 1.0M C5 LIK Power cord 31049496  Luxshare 1.0M C5 UK Power cord 31049497  Luxshare 1.0M C5 Europe Power cord 31049497  Luxshare 1.0M C5 Europe Power cord 31049518  Longwell Black single head 1.0m India Power cord 31035395  Luxshare 1.0M C5 Europe Power cord 31049504  Luxshare 1.0M C5 Brazil Power cord 3103505  Luxshare 1.0M C5 Brazil Power cord 31049505  Luxshare 1.0M C5 Brazil Power cord 31049505  Luxshare 1.0M C5 Brazil Power cord 31049507  Luxshare 1.0M C5 Brazil Power cord 31049507  Luxshare 1.0M C5 LA Power cord 31050356  Longwell Black single head 1.0m India Power cord 31039506  Luxshare 1.0M C5 LA Power cord 31050356  Luxshare 1.0M C5 LA Power cord 31050356  Luxshare 1.0M C5 LA Power cord 31050356			
MACE LX-326CT2 Chassis         5C80G59898           MACE LX-326CT2 Chassis F/Bezel         5CB0G59897           MACE LX-326CT2 USB&CR Bracket         5B40G598999           JT 328BT-23L Wlan Antenna Cover         5CB0G59219           JT H8IMB rearlo shielding         31504156           LS 600mm 321HT&326CT LED cable         31507411           JT 600mm 321HT&326CT LED cable         31507412           MGE 600mm 321HT&326CT LED cable         31507413           Power Cord         100mm 321HT&326CT LED cable           Longwell Black single head 1.0m3wire ULCSA Power cord         31033857           Volex 1.0M C5 US Power cord         31033857           Luxshare 1.0M C5 US Power cord         31033857           Volex 1.0M C5 US Power cord         31033897           Volex 1.0M C5 Macao Power cord         31035997           Volex 1.0M C5 Macao Power cord         31049500           Luxshare 1.0M C5 Macao Power cord         31503423           Volex 1.0M C5 Spin Japan power cord         31503423           Volex 1.0M C5 Spin Japan power cord         31503424           Luxshare 1.0M C5 Spin Japan power cord         31032953           Luxshare 1.0M C5 CC Power cord         31049514           Luxshare 1.0M C5 UK Power cord         31049514           Luxshare 1.0M C5 UK Power cord	MGE 600mm 321HT&326CT LED cable	31507413	
MACE LX-326CT2 Chassis F/Bezel         5CB0G59897           MACE LX-326CT2 USB&CR Bracket         5B40G59899           JT 328BT-23L Wilan Antenna Cover         5CB0G59219           JT H81MB rear/O shielding         3150156           LS 600mm 321HT8326CT LED cable         31507411           JT 600mm 321HT8326CT LED cable         31507412           MGE 600mm 321HT8326CT LED cable         31507413           Power Cord         31033857           Volex 1.0M C5 US Power cord         31033857           Volex 1.0M C5 US Power cord         31033857           Volex 1.0M C5 US Power cord         31049517           Luxshare 1.0M C5 US Power cord         31049517           Longwell Black single head 1.0m SAA Power cord         31049520           Luxshare 1.0M C5 Macao Power cord         31503423           Volex 1.0M C5 Zpin Japan power cord         31503424           Luxshare 1.0M C5 Zpin Japan power cord         31503424           Luxshare 1.0M C5 Zpin Japan power cord         31035953           Luxshare 1.0M C5 CC Power cord         31045147           Longwell Black single head 1.0m STA Power cord         3103396           Volex 1.0M C5 UK Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31049497           Luxshare 1.0M C5 Europe Power cord	MACE LX-326CT2 chassis	30500529	
MACE LX-326CT2 USB&CR Bracket  JT 328BT-23L Wlan Antenna Cover  JT H81MB rearlO shielding  LS 600mm 321HT8326CT LED cable  JT 600mm 321HT8326CT LED cable  NG€ 600mm 321HT8326CT LED cable  Power Cord  Longwell Black single head 1.0m3wire ULCSA Power cord  J1 100ex 1.0M C5 US Power cord  J1 10ex 1.0M C5 Macao Power cord  J1 10ex 1.0M C5 Mc Power cord  J1	MACE LX-326CT2 Chassis	5C80G59898	
JT 328BT-23L Wian Antenna Cover         5CB0G59219           JT H81MB rearlO shielding         31504156           LS 600mm 321HT8326CT LED cable         31507411           JT 600mm 321HT8326CT LED cable         31507412           MGE 600mm 321HT8326CT LED cable         31507413           Power Cord         31507413           Longwell Black single head 1.0m3wire ULCSA Power cord         3103857           Volex 1.0M C5 US Power cord         3103858           Luxshare 1.0M C5 US Power cord         31049517           Longwell Black single head 1.0m SAA Power cord         31049500           Luxshare 1.0M C5 Macao Power cord         31049500           Luxshare 1.0M C5 Macao Power cord         31503423           Volex 1.0M C5 2pin Japan power cord         31503424           Luxshare 1.0M C5 2pin Japan power cord         31503425           Grandsun Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCP Power cord         31045147           Longwell Black single head 1.0m ASTA Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31049497           Luxshare 1.0M C5 Lerope Power cord         31049497           Luxshare 1.0M C5 India Power cord         31049518	MACE LX-326CT2 Chassis F/Bezel	5CB0G59897	
JT H81MB rearlO shielding	MACE LX-326CT2 USB&CR Bracket	5B40G59899	
LS 600mm 321HT8326CT LED cable 31507411  JT 600mm 321HT8326CT LED cable 31507412  MGE 600mm 321HT8326CT LED cable 31507413  Power Cord 1  Longwell Black single head 1.0m3wire ULCSA Power cord 31033857  Volex 1.0M C5 US Power cord 3103858  Luxshare 1.0M C5 US Power cord 31049517  Longwell Black single head 1.0m SAA Power cord 31049500  Luxshare 1.0M C5 Macao Power cord 31049500  Luxshare 1.0M C5 Pin Japan power cord 31503423  Volex 1.0M C5 2pin Japan power cord 31503424  Luxshare 1.0M C5 2pin Japan power cord 31503425  Grandsun Black single head 1.0m3wire CCC Power cord (R) 31035995  Luxshare 1.0M C5 CCC Power cord 31045147  Longwell Black single head 1.0m ASTA Power cord 3103596  Volex 1.0M C5 UK Power cord 3103596  Volex 1.0M C5 UK Power cord 31035392  Luxshare 1.0M C5 UK Power cord 31035392  Luxshare 1.0M C5 UK Power cord 31035392  Longwell Black single head 1.0m VDE Power cord 31035332  Volex 1.0M C5 Europe Power cord 31049496  Luxshare 1.0M C5 Europe Power cord 31049497  Luxshare 1.0M C5 Lurope Power cord 31049497  Luxshare 1.0M C5 Lurope Power cord 31035395  Longwell Black single head 1.0m India Power cord 31503353  Longwell Black single head 1.0m India Power cord 31503353  Longwell Black single head 1.0m Brazil Power cord 31503359  Volex 1.0M C5 Europe Power cord 31503359  Luxshare 1.0M C5 Brazil Power cord 31503357  Longwell Black single head 1.0m Brazil Power cord 31039100  Volex 1.0M C5 Brazil Power cord 31503357  Longwell Black single head 1.0m Brazil Power cord 31503357  Longwell Black single head 1.0m Brazil Power cord 31503356	JT 328BT-23L Wlan Antenna Cover	5CB0G59219	
JT 600mm 321HT&326CT LED cable   31507412     MGE 600mm 321HT&326CT LED cable   31507413     Power Cord   1     Longwell Black single head 1.0m3wire ULCSA Power cord   31033857     Volex 1.0M C5 US Power cord   31033858     Luxshare 1.0M C5 US Power cord   31049517     Longwell Black single head 1.0m SAA Power cord   31049517     Longwell Black single head 1.0m SAA Power cord   31049500     Luxshare 1.0M C5 Macao Power cord   31049520     Luxshare 1.0M C5 Macao Power cord   31503423     Volex 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 Black single head 1.0m3wire CCC Power cord (R)   31032953     Luxshare 1.0M C5 CCC Power cord   31045147     Longwell Black single head 1.0m ASTA Power cord   31045396     Volex 1.0M C5 UK Power cord   31049496     Luxshare 1.0M C5 UK Power cord   31035332     Volex 1.0M C5 UK Power cord   31049496     Luxshare 1.0M C5 UK Power cord   31049497     Luxshare 1.0M C5 Europe Power cord   31049518     Longwell Black single head 1.0m India Power cord   3103353     Longwell Black single head 1.0m India Power cord   3103353     Longwell Black single head 1.0m India Power cord   3103353     Longwell Black single head 1.0m India Power cord   3103353     Longwell Black single head 1.0m Brazil Power cord   3103353     Longwell Black single head 1.0m Brazil Power cord   3103353     Longwell Black single head 1.0m Brazil Power cord   3103352     Volex 1.0M C5 Brazil Power cord   3103352     Luxshare 1.0M C5 Brazil Power cord   3103353     Longwell Black single head 1.0m Argentina C5 Power cord   31039100     Volex 1.0M C5 LA Power cord   31039507     Luxshare 1.	JT H81MB rearIO shielding	31504156	
MGE 600mm 321HT&326CT LED cable   31507413   1	LS 600mm 321HT&326CT LED cable	31507411	
Power Cord	JT 600mm 321HT&326CT LED cable	31507412	
Longwell Black single head 1.0m3wire ULCSA Power cord 31033857  Volex 1.0M C5 US Power cord 31033858  Luxshare 1.0M C5 US Power cord 31049517  Longwell Black single head 1.0m SAA Power cord 31049500  Luxshare 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 Black single head 1.0m3wire CCC Power cord (R) 31032953  Luxshare 1.0M C5 CCC Power cord 31045147  Longwell Black single head 1.0m ASTA Power cord 31035396  Volex 1.0M C5 UK Power cord 31035396  Volex 1.0M C5 UK Power cord 31035322  Longwell Black single head 1.0m VDE Power cord 31049496  Luxshare 1.0M C5 Europe Power cord 31049497  Luxshare 1.0M C5 Europe Power cord 31049497  Luxshare 1.0M C5 Europe Power cord 31049518  Longwell Black single head 1.0m India Power cord 31035395  Luxshare 1.0M C5 India Power cord 31039535  Luxshare 1.0M C5 India Power cord 31039504  Luxshare 1.0M C5 Italy Power cord 31039104  Volex 1.0M C5 Italy Power cord 3103359  Longwell Black single head 1.0m Brazil Power cord 3103359  Longwell Black single head 1.0m Brazil Power cord 31035357  Longwell Black single head 1.0m Brazil Power cord 31039100  Volex 1.0M C5 Brazil Power cord 31503357  Longwell Black single head 1.0m Argentina C5 Power cord 31049507  Luxshare 1.0M C5 LA Power cord 31503356	MGE 600mm 321HT&326CT LED cable	31507413	
Volex 1.0M C5 US Power cord         31033858           Luxshare 1.0M C5 US Power cord         31049517           Longwell Black 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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black single head 1.0m ASTA Power cord         31035396           Volex 1.0M C5 UK Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31035332           Volex 1.0M C5Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31049497           Luxshare 1.0M C5 India Power cord         31035335           Longwell Black single head 1.0m India Power cord         31035335           Longwell Black single head 1.0m Italy C5 Power cord ® 31039104           Volex 1.0M C5 Italy Power cord         31503359           Longwell Black single head 1.0m Brazil Power cord ® 31039100           Volex 1.0M C5 Brazil Power cord         3	Power Cord		1
Luxshare 1.0M C5 US Power cord         31049517           Longwell Black 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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black single head 1.0m ASTA Power cord         31035396           Volex 1.0M C5 UK Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31035332           Volex 1.0M C5 Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31049497           Luxshare 1.0M C5 India Power cord         31035395           Luxshare 1.0M C5 India Power cord         31503353           Longwell Black single head 1.0m Italy C5 Power cord ®         31039104           Volex 1.0M C5 Italy Power cord         31503359           Longwell Black single head 1.0m Brazil Power cord ®         31039359           Longwell Black single head 1.0m Brazil Power cord ®         31039357           Longwel	Longwell Black single head 1.0m3wire ULCSA Power cord	31033857	
Longwell Black 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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black single head 1.0m ASTA Power cord         31035396           Volex 1.0M C5 UK Power cord         31049496           Luxshare 1.0M C5 UK Power cord         31035352           Volex 1.0M C5 Europe Power cord         31035332           Volex 1.0M C5 Europe Power cord         31049497           Luxshare 1.0M C5 India Power cord         31035395           Luxshare 1.0M C5 India Power cord         31033535           Longwell Black single head 1.0m Italy C5 Power cord ® 31039104           Volex 1.0M C5 Italy Power cord         31035359           Longwell Black single head 1.0m Brazil Power cord ® 31035828           Volex 1.0M C5 Brazil Power cord         31035057           Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100           Volex 1.0M C5 LA Power cord         31039100<	Volex 1.0M C5 US Power cord	31033858	
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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black 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 Black single head 1.0m VDE Power cord         31035332           Volex 1.0M C5Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31035395           Luxshare 1.0M C5 India Power cord         31035395           Luxshare 1.0M C5 India Power cord         31039104           Volex 1.0M C5 Italy Power cord         31039104           Volex 1.0M C5 Brazil Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31503357           Luxshare 1.0M C5 Brazil Power cord         31503357           Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100	Luxshare 1.0M C5 US Power cord	31049517	
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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black single head 1.0m ASTA Power cord         31035396           Volex 1.0M C5 UK Power cord         31503352           Longwell Black 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 Black single head 1.0m India Power cord         31503353           Luxshare 1.0M C5 India Power cord         31503353           Longwell Black single head 1.0m Italy C5 Power cord ®         31039104           Volex 1.0M C5 Italy Power cord         31035828           Volex 1.0M C5 Italy Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31039505           Luxshare 1.0M C5 Brazil Power cord         31039100           Volex 1.0M C5 LA Power cord         31039100           Volex 1.0M C5 LA Power cord <td>Longwell Black single head 1.0m SAA Power cord</td> <td>31035397</td> <td></td>	Longwell Black single head 1.0m SAA Power cord	31035397	
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 Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black 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 Black single head 1.0m VDE Power cord         31035332           Volex 1.0M C5Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31049518           Longwell Black single head 1.0m India Power cord         31503353           Longwell Black single head 1.0m Italy C5 Power cord ®         31039104           Volex 1.0M C5 Italy Power cord         31503359           Longwell Black single head 1.0m Brazil Power cord ®         31035828           Volex 1.0M C5 Brazil Power cord         31039505           Luxshare 1.0M C5 Brazil Power cord         31503357           Longwell Black single head 1.0m Argentina C5 Power cord ®         31039100           Volex 1.0M C5 LA Power cord         31049507           Luxshare 1.0M C5 LA Power cord         31049507	Volex 1.0M C5 Macao Power cord	31049500	
Volex 1.0M C5 2pin Japan power cord         31503424           Luxshare 1.0M C5 2pin Japan power cord         31503425           Grandsun Black single head 1.0m3wire CCC Power cord (R)         31032953           Luxshare 1.0M C5 CCC Power cord         31045147           Longwell Black 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 Black single head 1.0m VDE Power cord         31035332           Volex 1.0M C5Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31049518           Longwell Black single head 1.0m India Power cord         31035395           Luxshare 1.0M C5 India Power cord         31503353           Longwell Black single head 1.0m Italy C5 Power cord ®         31039104           Volex 1.0M C5 Italy Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31035828           Volex 1.0M C5 Brazil Power cord         31035827           Longwell Black single head 1.0m Argentina C5 Power cord ®         31039100           Volex 1.0M C5 LA Power cord         31039100           Volex 1.0M C5 LA Power cord         31039507           Luxshare 1.0M C5 LA Power cord         31503356	Luxshare 1.0M C5 Macao Power cord	31049520	
Luxshare 1.0M C5 2pin Japan power cord  Grandsun Black single head 1.0m3wire CCC Power cord (R)  Luxshare 1.0M C5 CCC Power cord  Luxshare 1.0M C5 CCC Power cord  31045147  Longwell Black single head 1.0m ASTA Power cord  31049496  Luxshare 1.0M C5 UK Power cord  31503352  Longwell Black single head 1.0m VDE Power cord  31035332  Volex 1.0M C5Europe Power cord  31049497  Luxshare 1.0M C5 Europe Power cord  31049518  Longwell Black single head 1.0m India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31035333  Longwell Black single head 1.0m India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31039104  Volex 1.0M C5 Italy Power cord  31049504  Luxshare 1.0M C5 Italy Power cord  31035828  Volex 1.0M C5 Brazil Power cord  31039100  Luxshare 1.0M C5 Brazil Power cord  31039100  Volex 1.0M C5 LA Power cord  31039100  Volex 1.0M C5 LA Power cord  3103956	Longwell 1.0M C5 2pin Japan power cord	31503423	
Grandsun Black single head 1.0m3wire CCC Power cord (R)  Luxshare 1.0M C5 CCC Power cord  J1045147  Longwell Black single head 1.0m ASTA Power cord  J1035396  Volex 1.0M C5 UK Power cord  Luxshare 1.0M C5 UK Power cord  J1503352  Longwell Black single head 1.0m VDE Power cord  J1035332  Volex 1.0M C5Europe Power cord  J1049497  Luxshare 1.0M C5 Europe Power cord  J1049518  Longwell Black single head 1.0m India Power cord  J1035395  Luxshare 1.0M C5 India Power cord  J1035395  Longwell Black single head 1.0m Italy C5 Power cord ®  J1039104  Volex 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  J1035395  Longwell Black single head 1.0m Brazil Power cord ®  J1035359  Longwell Black single head 1.0m Brazil Power cord ®  J1035828  Volex 1.0M C5 Brazil Power cord  Luxshare 1.0M C5 Brazil Power cord  J1035357  Longwell Black single head 1.0m Argentina C5 Power cord ®  J1039100  Volex 1.0M C5 LA Power cord  J1049507  Luxshare 1.0M C5 LA Power cord  J103356	Volex 1.0M C5 2pin Japan power cord	31503424	
Luxshare 1.0M C5 CCC Power cord       31045147         Longwell Black 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 Black single head 1.0m VDE Power cord       31035332         Volex 1.0M C5Europe Power cord       31049497         Luxshare 1.0M C5 Europe Power cord       31049518         Longwell Black single head 1.0m India Power cord       31035395         Luxshare 1.0M C5 India Power cord       31503353         Longwell Black single head 1.0m Italy C5 Power cord ®       31039104         Volex 1.0M C5 Italy Power cord       31049504         Luxshare 1.0M C5 Italy Power cord       31035828         Volex 1.0M C5 Brazil Power cord       31039505         Luxshare 1.0M C5 Brazil Power cord       31503357         Longwell Black 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	Luxshare 1.0M C5 2pin Japan power cord	31503425	
Longwell Black 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 Black single head 1.0m VDE Power cord         31035332           Volex 1.0M C5Europe Power cord         31049497           Luxshare 1.0M C5 Europe Power cord         31049518           Longwell Black single head 1.0m India Power cord         31035395           Luxshare 1.0M C5 India Power cord         31503353           Longwell Black single head 1.0m Italy C5 Power cord ®         31039104           Volex 1.0M C5 Italy Power cord         31503359           Longwell Black 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 Black 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	Grandsun Black single head 1.0m3wire CCC Power cord (R)	31032953	
Volex 1.0M C5 UK Power cord  Luxshare 1.0M C5 UK Power cord  231503352  Longwell Black single head 1.0m VDE Power cord  31049497  Luxshare 1.0M C5 Europe Power cord  231049518  Longwell Black single head 1.0m India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31503353  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  31503359  Longwell Black 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 Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  31049507  Luxshare 1.0M C5 LA Power cord	Luxshare 1.0M C5 CCC Power cord	31045147	
Luxshare 1.0M C5 UK Power cord  Luxshare 1.0M C5Europe Power cord  31035332  Volex 1.0M C5Europe Power cord  31049497  Luxshare 1.0M C5 Europe Power cord  31049518  Longwell Black single head 1.0m India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31503353  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  31503359  Longwell Black single head 1.0m Brazil Power cord ® 31503359  Longwell Black single head 1.0m Brazil Power cord ® 310395828  Volex 1.0M C5 Brazil Power cord 31049505  Luxshare 1.0M C5 Brazil Power cord 31503357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord 31503356	Longwell Black single head 1.0m ASTA Power cord	31035396	
Longwell Black single head 1.0m VDE Power cord  Volex 1.0M C5Europe Power cord  Luxshare 1.0M C5 Europe Power cord  Luxshare 1.0M C5 Europe Power cord  Longwell Black single head 1.0m India Power cord  Luxshare 1.0M C5 India Power cord  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  Longwell Black single head 1.0m Brazil Power cord ® 3103959  Longwell Black single head 1.0m Brazil Power cord ® 31035828  Volex 1.0M C5 Brazil Power cord  Luxshare 1.0M C5 Brazil Power cord  31503357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  Luxshare 1.0M C5 LA Power cord  31503356	Volex 1.0M C5 UK Power cord	31049496	
Volex 1.0M C5Europe Power cord  Luxshare 1.0M C5 Europe Power cord  Longwell Black single head 1.0m India Power cord  Luxshare 1.0M C5 India Power cord  Luxshare 1.0M C5 India Power cord  Luxshare 1.0M C5 India Power cord  31503353  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  31503359  Longwell Black single head 1.0m Brazil Power cord ® 31035828  Volex 1.0M C5 Brazil Power cord  Luxshare 1.0M C5 Brazil Power cord  31503357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  Luxshare 1.0M C5 LA Power cord  31503356	Luxshare 1.0M C5 UK Power cord	31503352	
Luxshare 1.0M C5 Europe Power cord  Longwell Black single head 1.0m India Power cord  31035395  Luxshare 1.0M C5 India Power cord  31503353  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  31503359  Longwell Black single head 1.0m Brazil Power cord ® 31503359  Longwell Black 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 Black 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 Black single head 1.0m VDE Power cord	31035332	
Longwell Black single head 1.0m India Power cord  131035395  Luxshare 1.0M C5 India Power cord  13103353  Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord  131049504  Luxshare 1.0M C5 Italy Power cord  13103359  Longwell Black single head 1.0m Brazil Power cord ® 31035828  Volex 1.0M C5 Brazil Power cord  131049505  Luxshare 1.0M C5 Brazil Power cord  13103357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  131049507  Luxshare 1.0M C5 LA Power cord  31503356	Volex 1.0M C5Europe Power cord	31049497	
Luxshare 1.0M C5 India Power cord  Longwell Black 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 Black 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 Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord 31503356	Luxshare 1.0M C5 Europe Power cord	31049518	
Longwell Black single head 1.0m Italy C5 Power cord ® 31039104  Volex 1.0M C5 Italy Power cord 31503359  Longwell Black 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 Black 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 Black single head 1.0m India Power cord	31035395	
Volex 1.0M C5 Italy Power cord  Luxshare 1.0M C5 Italy Power cord  31503359  Longwell Black single head 1.0m Brazil Power cord ® 31035828  Volex 1.0M C5 Brazil Power cord  Luxshare 1.0M C5 Brazil Power cord  31503357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  31503356	Luxshare 1.0M C5 India Power cord	31503353	
Luxshare 1.0M C5 Italy Power cord  Longwell Black 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 Black 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 Black single head 1.0m Italy C5 Power cord ®	31039104	
Longwell Black 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 Black 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	Volex 1.0M C5 Italy Power cord	31049504	
Volex 1.0M C5 Brazil Power cord  Luxshare 1.0M C5 Brazil Power cord  31503357  Longwell Black single head 1.0m Argentina C5 Power cord ® 31039100  Volex 1.0M C5 LA Power cord  Luxshare 1.0M C5 LA Power cord  31503356	Luxshare 1.0M C5 Italy Power cord	31503359	
Luxshare 1.0M C5 Brazil Power cord  Longwell Black 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 Black single head 1.0m Brazil Power cord ®	31035828	
Longwell Black 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	Volex 1.0M C5 Brazil Power cord	31049505	1
Volex 1.0M C5 LA Power cord         31049507           Luxshare 1.0M C5 LA Power cord         31503356	Luxshare 1.0M C5 Brazil Power cord	31503357	1
Luxshare 1.0M C5 LA Power cord 31503356	Longwell Black single head 1.0m Argentina C5 Power cord ®	31039100	1
	Volex 1.0M C5 LA Power cord	31049507	1
Longwell Black single head 1.0m Denmark C5 Power cord ® 31039101	Luxshare 1.0M C5 LA Power cord	31503356	]
	 Longwell Black 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 Black single head 1.0m Switzerland C5 Power cord ®	31039103
Volex 1.0M C5 Switzerland Power cord	31049508
Luxshare 1.0M C5 Switzerland Power cord	31503361
Longwell Black 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 Black single head 1.0m Taiwan C5 Power cord ®	31038885
Volex 1.0M C5TW Power cord	31049499
Longwell Black 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 Black 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
LW BLK1.8m UL CSA Power Cord(R)	31026357
GS BLK1.8m UL power cord®	31033217
VL BLK1.8m UL CSA Power Cord®	31026145
Luxshare 1.8M C13 US Power cord	31049521
LW BLK1.8m ANE Power Cord®	31026350
VL BLK1.8m ANE Power Cord®	31026140
Luxshare 1.8M C13 Macao Power cord	31049524
LW 1.8m JAPAN Power Cord®	31039730
Volex 1.8M C13Japan Power cord	31049514
Luxshare 1.8M C13 Japan Power cord	31049523
Grandsun Black single head 1.8mCCC Power cord (R)	31028776
LX(ASAP) 1.8M CCC C13 power cord®	31040179
LW BLK1.8m BS Power Cord®	31026096
VL BLK1.8m BS Power Cord(R)	31026082
LW BLK1.8m VDE Power Cord®	31026355
VL BLK1.8m VDE Power Cord®	31026144
Luxshare 1.8M C13 Europe Power cord	31049522
Longwell Black single head 1.8m India Power cord ®	31033216
LW BLK1.8m BSMI Power Cord®	31026349
VL BLK1.8m BSMI Power Cord®	31026146
LW BLK1.8m SABS Power Cord®	31031394
Volex 1.8M C13 South Africa Power cord	31049509
Longwell Black single head 1.8m C13 IRAM Power cord ®	31036980
Volex 1.8M C13 LA Power cord	31049515

Lo	ongwell Black single head 1.8m C13 Brazil Power cord ®	31038784	
Vo	olex 1.8M C13 Brazil Power cord	31049513	
Lo	ongwell Black single head 1.8m C13 Korea Power cord ®	31026351	
VI	L BLK1.8m KTL Power Cord®	31026143	
Lo	ongwell1.8M Italy C13 power cord®	31039726	
Vo	olex 1.8M C13 Italy Power cord	31049512	
Lo	ongwell1.8M Denmark C13 power cord®	31039729	
Vo	olex 1.8M C13 Denmark Power cord	31049511	
Lo	ongwell1.8M SEV C13 power cord®	31039732	
Vo	olex 1.8M C13 Switzerland Power cord	31049516	
Lo	ongwell1.8M Israel C13 power cord®	31039728	
Vo	olex 1.8M C13 Israel Power cord	31049510	

# Chapter 11. FRU lists-H30-50

This chapter lists the information on the field replaceable units (FRUs).

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

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

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

Item #	Description	Lenovo PN	CRU ID
	CPU		
	I I7-4790 3.6/1600/4C/8M/1150 84W CPU	1101104	N
	I I7-4770 3.4/1600/8/1150 84 CPU	1100783	
	I I5-4460 3.2/1600/4C/6M/1150 84W CPU	1101107	
	I I5-4440 3.1/1600/4C/6M/1150 84 CPU	1100949	
	I I3-4160 3.6/2C/3M/1600 1150 54W CPU	SSA0F66603	
	I I3-4150 3.5/1600/2C/3M/1150 54W CPU	1101088	
	I I3-4130 3.4/1600/2C/3M/1150 54 CPU	1100930	
	I G3250 3.2/2C/3M/1333 1150 53W CPU	SSA0F66605	
	I G3240 3.1/1333/2C/3M/1150 54W CPU	1101089	
	I G3220 3.0/1333/2C/3M/1150 54 CPU	1100932	
	I G1840 2.8/1333/2C/2M/1150 54W CPU	1101095	
	I G1820 2.7/1333/2C/2M/1150 54 CPU	1101029	
	MB		N
	NOK B H81 95W refresh MB	5B20G05109	
	W8S B H81 95W refresh MB	5B20G05105	
	W8P B H81 95W refresh MB	5B20G05104	
	NOK E H81 95W refresh MB	5B20G05101	
	W8S E H81 95W refresh MB	5B20G05102	
	W8P E H81 95W refresh MB	5B20G05108	
	NOK E H81 MATX MB	90002567	
	W8S E H81 MATX MB	90002568	
	W8P E H81 MATX MB	90002569	

Thermal		N
GBM Crete1_Intel95w Cooler	SG10F47247	
Foxconn PKP736G01K(D)12Z heat sink	31-501179	
Taisol CEL3172836A6 heat sink	31-501178	
AVC DS09225R12HP251 front system fan	31500949	
LX 400mm sensor cable_6Pin+bracket	31042884	
Grandsun,400mm sensor cable_6Pin(with holder)	31042885	
Memory		2
M378B5773QB0-CK0 2GB D3 -1600 Memory-HF	1-100908	
HMT425U6AFR6C-PB 2GB D3 -1600 Memory-HF	1-100653	
MT4JTF25664AZ-1G6E1 2GB D3-1600 Memory	1-100954	
Mic_R D9PSH 2GB D3L-1600 Memory-HF	1-100966	
Mic_S D9PXV 2GB D3-1600 Memory	1-100792	
M378B5173DB0-CK0 4GB D3 -1600 Memory-HF	1-100944	
HMT451U6BFR8C-PB 4GB D3-1600 Memory-HF	1-100988	
MT8JTF51264AZ-1G6E1 4GB D3-1600 Memory	1-100955	
Mic_R D9QBJ 4GB D3L-1600 M2 Memory	1-100807	
Mic_S D9QBJ 4GB D3-1600 M2 Memory	1-100682	
M378B1G73DB0-CK0 8GB D3 -1600 Memory-HF	1-100945	
HMT41GU6BFR8C-PB 8GB D3-1600 Memory-HF	1-100989	
MT16JTF1G64AZ-1G6E1 8GB D3-1600 Memory	1-100669	
Mic_R D9QBJ 8GB D3L-1600 Memory-HF	1-101011	
M378B5773QB0-CK0 2GB D3 -1600 Memory-HF	1100908	
M378B5173QH0-CK0 4GB D3 -1600 Memory-HF	1100909	
Mic_R D9PSH 2GB D3L-1600 Memory-HF	1100966	
Mic_R D9QBJ 4GB D3L-1600 M2 Memory	1100807	
HMT425U6AFR6C-PB 2GB D3 -1600 Memory-HF	1100653	
HMT451U6BFR8C-PB 4GB D3-1600 Memory-HF	1100988	
M378B5173DB0-CK0 4GB D3 -1600 Memory-HF	1-100944	
M378B1G73DB0-CK0 8GB D3 -1600 Memory-HF	1-100945	
HMT451U6BFR8C-PB 4GB D3-1600 Memory-HF	1-100988	
HMT41GU6BFR8C-PB 8GB D3-1600 Memory-HF	1-100989	
Mic_R D9QBJ 4GB D3L-1600 M2 Memory	1-100807	
Mic_R D9QBJ 8GB D3L-1600 Memory-HF	1-101011	

HDD		2
WDXL500A WD5000AAKX-08U6A0 500G HDD-LH	16200544	
TSB Mars 4K 500G DT01ACA050 -LH	16200512	
SGT Pharaoh 4K ST500DM002 500G HDD-LH	16200178	
3.5inch SATA6G 7.2K Grenada BP 1.5 1TB	16200528	
TSB Mars 4K 1TB DT01ACA100 -LH	16200513	
WD XL1000B WD10EZEX-08M2NA0 1TB HDD	16200613	
3.5inch SATA6G 7.2K Grenada BP 1.5 2TB	16200529	
TSB Mars 4K 2TB DT01ACA200 -LH	16200514	
ODD		2
PSN SW430 HH SATA DVDROM-LH	25214498	
TSST 16XSH-116BB SATA Black DVDROM-LH	25213719	
TSST SH-116CB SATA DVD-ROM-LH	25216227	
HLDS DH60N HH SATA DVD-ROM-LH	25216229	
HLDS DH50N HH SATA DVD-ROM-LH	25210649	
PLDS 16XDH-16D7SH HH SATA DVDROM-LH	25205800	
PLDS 16XDH-16AESH SATA BLACK DVDRW-LH(LSOPU)	25213061	
TSST SH-216DB HH SATA Rambo DVDROM-LH	25213720	
Panasonic 16XSW830 HH SATA DVDRW-LH	25213885	
HLDS GHB0N HH SATA Rambo-LH	25214470	
Graphics		2
MSI@Geforce GTX 745@2G/A/DB/H LP Graphics	11202803	
BITLAND@Geforce GT 705@1G/A/DB/H LP Graphics	11-202744	
MSI@Geforce GT 705@1G/A/DB/H LP Graphics	11-202745	
VIDEO_CARD B@Geforce GT 705@1G/A/DB/H LP	SV10G52019	
VIDEO_CARD M@Geforce GT 705@1G/A/DB/H LP	SV10G52020	
VIDEO_CARD B@Geforce GT 705@2G/A/DB/H LP	SV10G56199	
VIDEO_CARD M@Geforce GT 705@2G/A/DB/H LP	SV10G56200	
MSI@Geforce GT 720@2G/A/DB/H LP Graphics	11-202747	
BITLAND@R5 235@2G/A/DB/H LP Graphics	11-202749	
BITLAND@R5 235@1G/A/DB/H LP Graphics	11-202405	
MSI@R5 235@1G/A/DB/H LP Graphics	11-202406	
BITLAND@R7 240@2G/A/DB/H LP Graphics	11-202408	
		•

Liteon PS-3181-02 VG 180w IPG single psu 36200455  Huntkey HK280-71FP 180w IPG single psu 36200456  Liteon PS-4241-02VC 240w IPG single psu 36200453  Huntkey HK280-72FP 240w IPG single psu 36200454  FSP240-40SBV 240W IPG Single psu 36200454  Acbel PCB020-ELI G 240w IPG ES single psu 36200451  Liteon PS-4241-01VB 240w IPG ES single psu 36200452  Wifi Card & Screw & Rear Antenna cable Cbt RTL8723BE 1x1BGN+BT HMC WLAN 20200439  Liteon WB335 1x1BGN+BT HMC WLAN 20200439  Liteon WB335 1x1BGN+BT4.0 HMC WLAN 20200437  JT W2X3 antiskid Screw 31501130  LS 326CT Antenna 400mm Rear SA30G18119  LS 326CT Antenna 400mm Rear SA30G18120  Miscellaneous 11200646  BITLAND RTSS179 7in1 Single S Reader 11200646  BITLAND RTSS179 7in1 Single S Reader 11201119  JT H81 MB Rear IO cover 31504156  JT VGA Rubber cover 31049015  MACE VGA Rubber cover - Optional 31505052  JT HDMI Rubber cover 31049017  Cable LX SATA power cable (300mm, 300mm) 31-502005  GX SATA power cable (300mm, 300mm) 31-502005  GX SATA power cable left elbow+right elbow 31501044  GX 200mm SATA cable left elbow+right elbow 31501045  LX 200mm SATA cable left elbow+right elbow 31501045  LX 200mm SATA cable left elbow+right elbow 31501045  LX 100 Pad Chicony TGR1226 2.4G touchpad BLK final 25212969  Speaker 1	Power Supply		N
Liteon PS-4241-02VG 240w IPG single psu 36200453 Huntkey HK340-72FP 240w IPG single psu 36200454 FSP240-40SBV 240W IPG ES single PSU 36200450 Acbel PCB020-EL1G 240w IPG ES single psu 36200451 Liteon PS-4241-01VB 240w IPG ES Single psu 36200452  Wifi Card & Screw & Rear Antenna cable Cbt RTL8723BE 1x1BGN+BT HMC WLAN 20200440 Liten RTL8723BE 1x1BGN+BT HMC WLAN 20200439 Liteon WB335 1x1BGN+BT-1 HMC WLAN 20200437 JT M2X3 antiskid Screw 31501076 JT Wi-Fi cover 31501130 LS 326CT Antenna 550mm Front SA30G18119 LS 326CT Antenna 400mm Rear SA30G18120  Miscellaneous 11200646 BITLAND RTS5179 7in1 Single_S Reader 11200646 BITLAND RTS5179 7in1 Single_S Reader 11201119 JT H81 MB Rear IO cover 31504156 JT VGA Rubber cover 31049015 MACE VGA Rubber cover 31049017  Cable LX SATA power cable(300mm_300mm) 31-502006 LX 200mm SATA cable left elbow+right elbow 31501044 GX 200mm SATA cable left elbow+right elbow 31501045 LX 200mm SATA cable left elbow+right elbow 31501045 LS USB2.0 F_IO cable_U500A600_326CT 31507415 Touch Pad Chicony TGR1226 2.4G touchpad BLK final 25212969	Liteon PS-3181-02 VG 180w IPG single psu	36200455	
Huntkey HK340-72FP 240w IPG single psu   36200454     FSP240-40SBV 240W IPG ES single PSU   36200450     Acbel PCB020-EL1G 240w IPG ES single psu   36200451     Liteon PS-4241-01VB 240w IPG ES SG PSU   36200452     Wifi Card & Screw & Rear Antenna cable   Cbt RTL8723BE 1x1BGN+BT HMC WLAN   20200440     Ltn RTL8723BE 1x1BGN+BT HMC WLAN   20200439     Liteon WB335 1x1BGN+BT HMC WLAN   20200437     JT W2X3 antiskid Screw   31501076     JT Wi-Fi cover   31501130     LS 326CT Antenna 550mm Front   SA30G18119     LS 326CT Antenna 400mm Rear   SA30G18120     Miscellaneous   Talsol GL827S 7in1 Single S Reader   11200646     BITLAND RTSS179 7in1 Single S Reader   11201119     JT H81 MB Rear IO cover   31504156     JT VGA Rubber cover   31049015     MACE VGA Rubber cover - Optional   31505052     JT H0MI Rubber cover   31049017     Cable   LX SATA power cable(300mm_300mm)   31-502006     LX 200mm SATA cable left elbow-right elbow   31501044     GX 200mm SATA cable left elbow-right elbow   31501045     LX 200mm SATA cable left elbow-right elbow   31501045     LS USB2.0 F_IO cable_U500A600_326CT   31507415     Touch Pad   Chicony TGR1226 2.4G touchpad BLK final   25212969     Speaker   1	Huntkey HK280-71FP 180w IPG single psu	36200456	
FSP240-40SBV 240W IPG ES single PSU   36200450     Acbel PCB020-EL1G 240w IPG ES single psu   36200451     Liteon PS-4241-01VB 240w IPG ES SG PSU   36200452     Wifi Card & Screw & Rear Antenna cable   Cbt RTL8723BE 1x1BGN+BT HMC WLAN   20200440     Ltn RTL8723BE 1x1BGN+BT HMC WLAN   20200439     Liteon WB335 1x1BGN+BT HMC WLAN   20200437     JT M2X3 antiskid Screw   31501076     JT Wi-Fi cover   31501130     LS 326CT Antenna 550mm Front   SA30G18119     LS 326CT Antenna 400mm Rear   SA30G18120     Miscellaneous   Taisol GL8275 7in1 Single_S Reader   11200646     BITLAND RTS5179 7in1 Single_S Reader   11201119     JT H81 MB Rear IO cover   31504156     JT VGA Rubber cover   31049015     MACE VGA Rubber cover - Optional   31505052     JT HDMI Rubber cover   31049017     Cable   LX SATA power cable(300mm_300mm)   31-502006     LX 200mm SATA cable left elbow+right elbow   31501044     GX 200mm SATA cable left elbow+right elbow   31501044     GX 200mm SATA cable left elbow+right elbow   31507414     GX 200mm SATA cable_U500A600_326CT   31507414     MGE SB2.0 F_IO cable_U500A600_326CT   31507415     Touch Pad   Chicony TGR1226 2.4G touchpad BLK final   25212969     Speaker   1	Liteon PS-4241-02VG 240w IPG single psu	36200453	
Acbel PCB020-EL1G 240w IPG ES single psu 36200451  Liteon PS-4241-01VB 240w IPG ES SG PSU 36200452  Wifi Card & Screw & Rear Antenna cable  Cbt RTL8723BE 1x1BGN+BT HMC WLAN 20200439  Liteon WS335 1x1BGN+BT HMC WLAN 20200437  JT M2X3 antiskid Screw 31501076  JT Wi-Fi cover 31501130  LS 326CT Antenna 550mm Front SA30G18119  LS 326CT Antenna 400mm Rear SA30G18120  Miscellaneous 11200466  BITLAND RTS5179 7in1 Single_S Reader 11200646  BITLAND RTS5179 7in1 Single_S Reader 11201119  JT H81 MB Rear IO cover 31504156  JT VGA Rubber cover 31049015  MACE VGA Rubber cover 31049017  Cable LX SATA power cable(300mm_300mm) 31-502006  LX 200mm SATA cable left elbow+right elbow 31501044  GX 200mm SATA cable left elbow+right elbow 31501045  LX 200mm SATA cable left elbow+right elbow 31501045  LS USB2.0 F_IO cable_U500A600_326CT 31507415  Touch Pad Chicony TGR1226 2.4G touchpad BLK final 25212969	Huntkey HK340-72FP 240w IPG single psu	36200454	
Liteon PS-4241-01VB 240w IPG ES G PSU   36200452	FSP240-40SBV 240W IPG ES single PSU	36200450	
Wifi Card & Screw & Rear Antenna cable         0           Cbt RTL8723BE 1x1BGN+BT HMC WLAN         20200440           Ltn RTL8723BE 1x1BGN+BT HMC WLAN         20200439           Liteon WB335 1x1BGN+BT HMC WLAN         20200437           JT W2X3 antiskid Screw         31501076           JT Wi-Fi cover         31501130           LS 326CT Antenna 550mm Front         SA30G18119           LS 326CT Antenna 400mm Rear         SA30G18120           Miscellaneous         N           Taisol GL827S 7in1 Single_S Reader         11200646           BITLAND RTS5179 7in1 Single_S Reader         11201119           JT HB1 MB Rear IO cover         31504156           JT VGA Rubber cover         31049015           MACE VGA Rubber cover - Optional         31505052           JT HDMI Rubber cover         31049017           Cable         N           LX SATA power cable(300mm_300mm)         31-502005           LX 200mm SATA cable left elbow+right elbow         31501044           GX 200mm SATA cable left elbow+right elbow         31501045           LX USB2.0 F_IO cable_U500A600_326CT         31507414           MGE SB2.0 F_IO cable_U500A600_326CT         31507415           Touch Pad         N           Chicony TGR1226 2.4G touchpad BLK final         25	Acbel PCB020-EL1G 240w IPG ES single psu	36200451	
Cbt RTL8723BE 1x1BGN+BT HMC WLAN   20200440	Liteon PS-4241-01VB 240w IPG ES SG PSU	36200452	
Ltn RTL8723BE 1x1BGN+BT HMC WLAN         20200439           Liteon WB335 1x1BGN+BT4.0 HMC WLAN         20200437           JT M2X3 antiskid Screw         31501076           JT Wi-Fi cover         31501130           LS 326CT Antenna 550mm Front         SA30G18119           LS 326CT Antenna 400mm Rear         SA30G18120           Miscellaneous         N           Taisol GL827S 7in1 Single_S Reader         11200646           BITLAND RTS5179 7in1 Single_S Reader         11201119           JT H81 MB Rear IO cover         31504156           JT VGA Rubber cover         31049015           MACE VGA Rubber cover - Optional         31505052           JT HDMI Rubber cover         31049017           Cable         N           LX SATA power cable(300mm_300mm)         31-502005           GX SATA power cable(300mm_300mm)         31-502006           LX 200mm SATA cable left elbow+right elbow         31501044           GX 200mm SATA cable left elbow+right elbow         31501045           LX USB2.0 F_IO cable_U500A600_326CT         31507414           MGE SB2.0 F_IO cable_U500A600_326CT         31507415           Touch Pad         N           Chicony TGR1226 2.4G touchpad BLK final         25212969	Wifi Card & Screw & Rear Antenna cable		N
Liteon WB335 1x1BGN+BT4.0 HMC WLAN       20200437         JT M2X3 antiskid Screw       31501076         JT Wi-Fi cover       31501130         LS 326CT Antenna 550mm Front       SA30G18119         LS 326CT Antenna 400mm Rear       SA30G18120         Miscellaneous       N         Taisol GL827S 7in1 Single_S Reader       11200646         BITLAND RTS5179 7in1 Single_S Reader       11201119         JT H81 MB Rear IO cover       31504156         JT VGA Rubber cover       31049015         MACE VGA Rubber cover - Optional       31505052         JT HDMI Rubber cover       31049017         Cable       N         LX SATA power cable(300mm_300mm)       31-502005         GX SATA power cable(300mm_300mm)       31-502006         LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LX 200mm SATA cable left elbow+right elbow       31501045         LS USB2.0 F_IO cable_U500A600_326CT       31507414         MGE SB2.0 F_IO cable_U500A600_326CT       31507415         Touch Pad       N         Chicony TGR1226 2.4G touchpad BLK final       25212969	Cbt RTL8723BE 1x1BGN+BT HMC WLAN	20200440	
JT M2X3 antiskid Screw   31501076     JT Wi-Fi cover   31501130     LS 326CT Antenna 550mm Front   SA30G18119     LS 326CT Antenna 400mm Rear   SA30G18120     Miscellaneous   I1200646     BiTLAND RTS5179 7in1 Single_S Reader   11200646     BiTLAND RTS5179 7in1 Single_S Reader   11201119     JT H81 MB Rear IO cover   31504156     JT VGA Rubber cover   31049015     MACE VGA Rubber cover - Optional   31505052     JT HDMI Rubber cover   31049017     Cable   N     LX SATA power cable(300mm_300mm)   31-502005     GX SATA power cable(300mm_300mm)   31-502006     LX 200mm SATA cable left elbow+right elbow   31501044     GX 200mm SATA cable left elbow+right elbow   31501044     GX 200mm SATA cable left elbow+right elbow   31501044     GX 200mm SATA cable left elbow+right elbow   31501045     LS USB2.0 F_IO cable_U500A600_326CT   31507414     MGE SB2.0 F_IO cable_U500A600_326CT   31507415     Touch Pad   N     Chicony TGR1226 2.4G touchpad BLK final   25212969     Speaker   1	Ltn RTL8723BE 1x1BGN+BT HMC WLAN	20200439	
JT Wi-Fi cover	Liteon WB335 1x1BGN+BT4.0 HMC WLAN	20200437	
LS 326CT Antenna 550mm Front LS 326CT Antenna 400mm Rear  Miscellaneous Taisol GL827S 7in1 Single_S Reader BITLAND RTS5179 7in1 Single_S Reader JT VGA Rubber cover MACE VGA Rubber cover JT HDMI Rubber cover  Cable LX SATA power cable(300mm_300mm) LX 200mm SATA cable left elbow+right elbow GX 200mm SATA cable left elbow-right	JT M2X3 antiskid Screw	31501076	
LS 326CT Antenna 400mm Rear   SA30G18120   N	JT Wi-Fi cover	31501130	
Miscellaneous       N         Taisol GL827S 7in1 Single_S Reader       11200646         BITLAND RTS5179 7in1 Single_S Reader       112011119         JT H81 MB Rear IO cover       31504156         JT VGA Rubber cover       31049015         MACE VGA Rubber cover - Optional       31505052         JT HDMI Rubber cover       31049017         Cable       N         LX SATA power cable(300mm_300mm)       31-502005         GX SATA power cable(300mm_300mm)       31-502006         LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LX 200mm SATA cable left elbow+right elbow       31501045         LS USB2.0 F_IO cable_U500A600_326CT       31507414         MGE SB2.0 F_IO cable_U500A600_326CT       31507415         Touch Pad       N         Chicony TGR1226 2.4G touchpad BLK final       25212969	LS 326CT Antenna 550mm Front	SA30G18119	
Taisol GL827S 7in1 Single_S Reader  BITLAND RTS5179 7in1 Single_S Reader  JT H81 MB Rear IO cover  JT VGA Rubber cover  MACE VGA Rubber cover - Optional  JT HDMI Rubber cover  Cable  LX SATA power cable(300mm_300mm)  GX SATA power cable(300mm_300mm)  LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  JX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  JS01044  GX 200mm SATA cable left elbow+right elbow  JS01045  LS USB2.0 F_IO cable_U500A600_326CT  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker	LS 326CT Antenna 400mm Rear	SA30G18120	
BITLAND RTS5179 7in1 Single_S Reader   11201119     JT H81 MB Rear IO cover   31504156     JT VGA Rubber cover   31049015     MACE VGA Rubber cover - Optional   31505052     JT HDMI Rubber cover   31049017     Cable	Miscellaneous		N
JT H81 MB Rear IO cover       31504156         JT VGA Rubber cover       31049015         MACE VGA Rubber cover - Optional       31505052         JT HDMI Rubber cover       31049017         Cable       N         LX SATA power cable(300mm_300mm)       31-502005         GX SATA power cable(300mm_300mm)       31-502006         LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LX 200mm SATA cable left elbow+right elbow       31501045         LS USB2.0 F_IO cable_U500A600_326CT       31507414         MGE SB2.0 F_IO cable_U500A600_326CT       31507415         Touch Pad       N         Chicony TGR1226 2.4G touchpad BLK final       25212969         Speaker       1	Taisol GL827S 7in1 Single_S Reader	11200646	
JT VGA Rubber cover   31049015	BITLAND RTS5179 7in1 Single_S Reader	11201119	
MACE VGA Rubber cover - Optional       31505052         JT HDMI Rubber cover       31049017         Cable       N         LX SATA power cable(300mm_300mm)       31-502005         GX SATA power cable(300mm_300mm)       31-502006         LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LX 200mm SATA cable left elbow+right elbow       31501045         LS USB2.0 F_IO cable_U500A600_326CT       31507414         MGE SB2.0 F_IO cable_U500A600_326CT       31507415         Touch Pad       N         Chicony TGR1226 2.4G touchpad BLK final       25212969         Speaker       1	JT H81 MB Rear IO cover	31504156	
JT HDMI Rubber cover   31049017	JT VGA Rubber cover	31049015	
Cable         N           LX SATA power cable(300mm_300mm)         31-502005           GX SATA power cable(300mm_300mm)         31-502006           LX 200mm SATA cable left elbow+right elbow         31501044           GX 200mm SATA cable left elbow+right elbow         31501045           LX 200mm SATA cable left elbow+right elbow         31501044           GX 200mm SATA cable left elbow+right elbow         31501045           LS USB2.0 F_IO cable_U500A600_326CT         31507414           MGE SB2.0 F_IO cable_U500A600_326CT         31507415           Touch Pad         N           Chicony TGR1226 2.4G touchpad BLK final         25212969           Speaker         1	MACE VGA Rubber cover - Optional	31505052	
LX SATA power cable(300mm_300mm)  GX SATA power cable(300mm_300mm)  131-502006  LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  1501045  LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow-right elbow  31501045  LS USB2.0 F_IO cable_U500A600_326CT  31507414  MGE SB2.0 F_IO cable_U500A600_326CT  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  1	JT HDMI Rubber cover	31049017	
GX SATA power cable(300mm_300mm)  LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  31501045  LX 200mm SATA cable left elbow+right elbow  31501045  LX 200mm SATA cable left elbow+right elbow  31501044  GX 200mm SATA cable left elbow+right elbow  31501045  LS USB2.0 F_IO cable_U500A600_326CT  31507414  MGE SB2.0 F_IO cable_U500A600_326CT  31507415  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  1	Cable		N
LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LX 200mm SATA cable left elbow+right elbow       31501044         GX 200mm SATA cable left elbow+right elbow       31501045         LS USB2.0 F_IO cable_U500A600_326CT       31507414         MGE SB2.0 F_IO cable_U500A600_326CT       31507415         Touch Pad       N         Chicony TGR1226 2.4G touchpad BLK final       25212969         Speaker       1	LX SATA power cable(300mm_300mm)	31-502005	
GX 200mm SATA cable left elbow+right elbow  LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  31501045  LS USB2.0 F_IO cable_U500A600_326CT  MGE SB2.0 F_IO cable_U500A600_326CT  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  1	GX SATA power cable(300mm_300mm)	31-502006	
LX 200mm SATA cable left elbow+right elbow  GX 200mm SATA cable left elbow+right elbow  31501045  LS USB2.0 F_IO cable_U500A600_326CT  MGE SB2.0 F_IO cable_U500A600_326CT  31507415  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  1	LX 200mm SATA cable left elbow+right elbow	31501044	
GX 200mm SATA cable left elbow+right elbow  LS USB2.0 F_IO cable_U500A600_326CT  MGE SB2.0 F_IO cable_U500A600_326CT  Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  Speaker  31507414  N  25212969  1	GX 200mm SATA cable left elbow+right elbow	31501045	
LS USB2.0 F_IO cable_U500A600_326CT 31507414  MGE SB2.0 F_IO cable_U500A600_326CT 31507415  Touch Pad N Chicony TGR1226 2.4G touchpad BLK final 25212969  Speaker 1	LX 200mm SATA cable left elbow+right elbow	31501044	
MGE SB2.0 F_IO cable_U500A600_326CT 31507415  Touch Pad N Chicony TGR1226 2.4G touchpad BLK final 25212969  Speaker 1	GX 200mm SATA cable left elbow+right elbow	31501045	
Touch Pad  Chicony TGR1226 2.4G touchpad BLK final  Speaker  1	LS USB2.0 F_IO cable_U500A600_326CT	31507414	
Chicony TGR1226 2.4G touchpad BLK final 25212969  Speaker 1	MGE SB2.0 F_IO cable_U500A600_326CT	31507415	
Speaker 1	Touch Pad		N
	Chicony TGR1226 2.4G touchpad BLK final	25212969	
Langua Specifica M0600 / Block )	Speaker		1
Leriovo Speaker Muozu (Black)	Lenovo Speaker M0620 ( Black )	25013742	

Chassis		N
JT LX-326CT chassis	30500528	
JT LX-326CT Chassis	5C80G59892	
JT LX-326CT Chassis F/Bezel	5CB0G59895	
JT LX-326CT USB&CR Bracket	5B40G59896	
JT 328BT-23L Wlan Antenna Cover	5CB0G59219	
JT H81MB rearIO shielding	31504156	
LS 600mm 321HT&326CT LED cable	31507411	
JT 600mm 321HT&326CT LED cable	31507412	
MGE 600mm 321HT&326CT LED cable	31507413	
MACE LX-326CT2 chassis	30500529	
MACE LX-326CT2 Chassis	5C80G59898	
MACE LX-326CT2 Chassis F/Bezel	5CB0G59897	
MACE LX-326CT2 USB&CR Bracket	5B40G59899	
JT 328BT-23L Wlan Antenna Cover	5CB0G59219	
JT H81MB rearIO shielding	31504156	
LS 600mm 321HT&326CT LED cable	31507411	
JT 600mm 321HT&326CT LED cable	31507412	
MGE 600mm 321HT&326CT LED cable	31507413	
KB&Mouse		1
Sunrex EKB-10YA(US) B-Silk USB KB-LVT8	25209111	
Primax KB4721(US) B-Silk USB KB-LVT8	25209112	
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	

· <u></u>	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) B-Silk USB KB-OKE8	25209140
	Primax KB4721(US) B-Silk USB KB-OKE8	25209141
	Chicony KU-1153 B-Silk USB KB-OKE8	25209142
	Sunrex EKB-10YA(US) B-S USB KB-LVT8 LH	25209143
	Sunrex EKB-10YA(US) B-S USB KB-OKE8 LH	25209144
	Liteon LXH-SM-8825 B-Silk Mouse	25200528
	Sunrex LXH-EMS-10ZA B-Silk Mouse	25200530
	Primax M300 USB gesture mouse BLK	25213876
	Primax M300 USB gesture mouse BLK-Israel	25214502
	Liteon SK-8861(US) 2.4G KB-Black8	25209175
	Liteon SK-8861(US-MY) 2.4G KB-Black8	25209176
	Liteon SK-8861(TW) 2.4G KB-Black8	25209177
	Liteon SK-8861(TH) 2.4G KB-Black8	25209178
	Liteon SK-8861(CS-SK) 2.4G KB-Black8	25209179
	Liteon SK-8861(US-IN) 2.4G KB-Black8	25209180
	Liteon SK-8861(RU) 2.4G KB-Black8	25209181
	Liteon SK-8861(GB) 2.4G KB-Black8	25209182
	Liteon SK-8861(Nordic) 2.4G KB-Black8	25209183
	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

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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	
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	25-205773	
Power Cord		1
LW BLK1.8M UL CSA Power Cord(R)	31026357	
GS BLK1.8M UL power cord®	31033217	
VL BLK1.8M UL CSA Power Cord®	31026145	
Luxshare 1.8M C13 US Power cord	31049521	
LW BLK1.8M UL CSA Power Cord(R)	31026357	
GS BLK1.8M UL power cord®	31033217	
VL BLK1.8M UL CSA Power Cord®	31026145	
Luxshare 1.8M C13 US Power cord	31049521	
Grandsun Black single head 1.8MCCC Power cord(R)	31028776	
LX(ASAP) 1.8M CCC C13 power cord®	31040179	
LW BLK1.8M BS Power Cord®	31026096	
Luxshare 1.8M C13 UK Power cord	31502861	
VL BLK1.8M BS Power Cord(R)	31026082	
LW BLK1.8M BS Power Cord®	31026096	
Luxshare 1.8M C13 UK Power cord	31502861	
VL BLK1.8M BS Power Cord(R)	31026082	
LW BLK1.8M ANE Power Cord®	31026350	
VL BLK1.8M ANE Power Cord®	31026140	
Luxshare 1.8M C13 Macao Power cord	31049524	
LW BLK1.8M VDE Power Cord®	31026355	
VL BLK1.8M VDE Power Cord®	31026144	
Luxshare 1.8M C13 Europe Power cord	31049522	
LW BLK1.8M VDE Power Cord®	31026355	
VL BLK1.8M VDE Power Cord®	31026144	
Luxshare 1.8M C13 Europe Power cord	31049522	
Luxshare 1.8M C13 India Power cord	31502871	
Longwell Black single head 1.8MIndia Power cord®	31033216	
LW BLK1.8M BSMI Power Cord®	31026349	
VL BLK1.8M BSMI Power Cord®	31026146	
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LW BLK1.8M SABS Power Cord®	31031394	
Luxshare 1.8M C13 South Africa Power cord	31502865	
Volex 1.8M C13 South Africa Power cord	31049509	
Longwell Black single head 1.8M C13 IRAM Power cord®	31036980	
Luxshare 1.8M C13 Latin America Power cord	31502869	
Volex 1.8M C13 Latin America Power cord	31049515	
Longwell Black single head 1.8M C13 IRAM Power cord®	31036980	
Luxshare 1.8M C13 Latin America Power cord	31502869	
Volex 1.8M C13 Latin America Power cord	31049515	
Longwell Black single head 1.8M C13 Brazil Power cord®	31038784	
Luxshare 1.8M C13 Brazil Power cord	31502862	
Volex 1.8M C13 Brazil Power cord	31049513	
Longwell Black single head 1.8M C13 Korea Power cord®	31026351	
Luxshare 1.8M C13 Korea Power cord	31502870	
VL BLK1.8M KTL Power Cord®	31026143	
LW 1.8M JAPAN Power Cord®	31039730	
Volex 1.8M C13 Japan Power cord	31049514	
Luxshare 1.8M C13 Japan Power cord	31049523	
LW 1.8M JAPAN Power Cord®	31039730	
Volex 1.8M C13 Japan Power cord	31049514	
Luxshare 1.8M C13 Japan Power cord	31049523	
Longwell 1.8M Italy C13 power cord®	31039726	
Luxshare 1.8M C13 Italy Power cord	31502864	
Volex 1.8M C13 Italy Power cord	31049512	
Longwell 1.8M Denmark C13 power cord®	31039729	
Luxshare 1.8M C13 Denmark Power cord	31502863	
Volex 1.8M C13 Denmark Power cord	31049511	
Longwell 1.8M SEV C13 power cord®	31039732	
Luxshare 1.8M C13 Switzerland Power cord	31502868	
Volex 1.8M C13 Switzerland Power cord	31049516	
Longwell 1.8M Israel C13 power cord®	31039728	
Luxshare 1.8M C13 Israel Power cord	31502866	
Volex 1.8M C13 Israel Power cord	31049510	

# **Chapter 12. General information**

This chapter provides general information that applies to all machine types supported by this publication.

#### 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.