lenovo

IdeaPad S100c

Hardware Maintenance Manual

Note:

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 83.

First Edition (May. 2012)

© Copyright Lenovo 2012. All rights reserved.

LENOVO products, data, computer software, and services have been developed exclusively at private expense and are sold to governmental entities as commercial items as defined by 48 C.F.R. 2.101 with limited and restricted rights to use, reproduction and disclosure.

LIMITED AND RESTRICTED RIGHTS NOTICE: If products, data, computer software, or services are delivered pursuant a General Services Administration ″GSA″ contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

© 2012 Lenovo

Contents

About this manual iv

Safety information 1
General safety 2
Electrical safety 3
Safety inspection guide 5
Handling devices that are sensitive to electrostatic discharge 6
Grounding requirements 6
Safety notices: multilingual translations 7
Laser compliance statement 14

Important service information 16
Strategy for replacing FRUs 16
- Strategy for replacing a hard disk drive 17
- Important notice for replacing a system board 17

Important information about replacing RoHS compliant FRUs 18

General checkout 19
What to do first 20
Power system checkout 21
- Checking the AC adapter 21
- Checking operational charging 21
- Checking the battery pack 22

Related service information 23
Restoring the factory contents by using OneKey Recovery 23
- Restore of factory default 23
- Using recovery discs 23

Passwords 24
Power management 25
Putting your computer into sleep state or shutting it down 25
- Putting your computer into sleep state 25
- Shutting down your computer 25

Lenovo IdeaPad S100c 26
Specifications 26
Status indicators 28
Fn key combinations 30
FRU replacement notices 31
- Screw notices 31

Removing and replacing an FRU 32
- 1010 Battery pack 33
- 1020 Dummy cards 34
- 1030 Hard disk drive (HDD) slot cover and HDD 35
- 1040 DIMM cover 37
- 1050 DIMM 38
- 1060 PCI Express Mini Card for wireless LAN/WAN 39
- 1070 Keyboard cover, keyboard and LED board 42
- 1080 LCD unit 45
- 1090 Keyboard bezel, speakers and Bluetooth card 48
- 1100 System board 52
- 1110 Fan assembly and Heat Sink assembly 55
- 1120 Base cover 57
- 1130 LCD front bezel 59
- 1140 LCD panel, LCD cable and hinges 61
- 1150 Integrated camera 64
- 1160 Antenna assembly and LCD cover 65

Locations 66
- Front view 66
- Right-side view 67
- Bottom and Left-side view 67

Parts list 68
- Overall 69
- LCD FRUs 72
- Keyboard 74
- Miscellaneous parts 78
- AC adapters 79
- Power cords 80

Notices 83
Trademarks 84

About this manual

This manual contains service and reference information for the following Lenovo IdeaPad product:

Lenovo IdeaPad S100c

Use this manual to troubleshoot problems.

The manual is divided into the following sections:

- The common sections provide general information, guidelines, and safety information required for servicing computers.
- The product-specific section includes service, reference, and product-specific parts information.

Important:

This manual is intended only for trained servicers who are familiar with Lenovo IdeaPad products. Use this manual to troubleshoot problems effectively.

Before servicing a Lenovo IdeaPad product, make sure to read all the information under "Safety information" on page 1 and "Important service information" on page 16.

Safety information

This chapter presents the following safety information that you need to get familiar with before you service an IdeaPad S100c computer:

- "General safety" on page 2.
- "Electrical safety" on page 3
- "Safety inspection guide" on page 5
- "Handling devices that are sensitive to electrostatic discharge" on page 6
- "Grounding requirements" on page 6
- "Safety notices: multilingual translations" on page 7
- "Laser compliance statement" on page 14

General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
  1. Make sure that 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 it.
  4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Place removed covers and other parts in a safe place, keeping them away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip it over.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure 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 the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.

  Attention: 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 may 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.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

Electrical safety

Observe the following rules when working on electrical equipments.

Important:

Use only approved tools and test equipments. Some hand tools have handles covered with a soft material that does not insulate you when working with live electrical currents.

Many customers have rubber floor mats near their machines that contain small conductive fibers to decrease electrostatic discharges. Do not use such kind of mat to protect yourself from electrical shock.

- Find the room emergency power-off (EPO) switch, disconnecting the 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 the equipment that has hazardous voltages.
- Disconnect all power before:
  - Performing a mechanical inspection
  - Working near power supplies
  - Removing or installing main units
- 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.

    Attention: 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.

    Attention: An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.
  - When using testers, 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; instructions for these precautions are in the safety sections of maintenance information. Be extremely careful when you measure the 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 it to make sure 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:
  - Caution: do not become a victim yourself.
  - Switch off the power.
  - Send the victim to get medical aid.

Safety inspection guide

The purpose of this inspection guide is to assist you in identifying potential unsafe conditions. As each machine was designed and built, required safety items were installed to protect users and service personnel from injury. This guide addresses only those items. You should use good judgment to identify potential safety hazards according to the attachment of non-Lenovo IdeaPad 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 a bulging capacitor
- Mechanical hazards, such as loose or missing hardware

To determine whether there are any potential unsafe conditions, use the following checklist at the beginning of every service task. 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. Turn 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 the frame ground.
   b. The power cord should be the type specified in the parts list.
   c. Insulation must not be frayed or worn.
4. Check for cracked or bulging batteries.
5. Remove the cover.
6. Check for any obvious non-Lenovo IdeaPad alterations. Use good judgment as to the safety of any non-Lenovo IdeaPad alterations.
7. 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.
8. Check for worn, frayed, or pinched cables.
9. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

Handling devices that are sensitive to electrostatic discharge

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.
- 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 to guard against ESD damage is desirable but not necessary.

  - Attach the ESD ground clip to any frame ground, ground braid, or green-wire ground.
  - When working on a double-insulated or battery-operated system, use an ESD common ground or reference point. 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: multilingual translations

The safety notices in this section are provided in English, French, German, Hebrew, Italian, Japanese, and Spanish.

Safety notice 1

Before the computer is powered on after FRU replacement, make sure all screws, springs, and other small parts are in place and are not left loose inside the computer. Verify this by shaking the computer and listening for rattling sounds. Metallic parts or metal flakes can cause electrical shorts.

Avant de remettre l'ordinateur sous tension après remplacement d'une unité en clientèle, vérifiez que tous les ressorts, vis et autres pièces sont bien en place et bien fixées. Pour ce faire, secouez l'unité et assurez-vous qu'aucun bruit suspect ne se produit. Des pièces métalliques ou des copeaux de métal pourraient causer un court-circuit.

Bevor nach einem FRU-Austausch der Computer wieder angeschlossen wird, muß sichergestellt werden, daß keine Schrauben, Federn oder andere Kleinteile fehlen oder im Gehäuse vergessen wurden. Der Computer muß geschüttelt und auf Klappergeräusche geprüft werden. Metallteile oder-splitter können Kurzschlüsse erzeugen.

לפני הפעלת המחשב לאחר החלפת FRU יש לוודא
שכל הברגים, הקפיצים, וחלקים קטנים אחרים נמצאים
במקומם ואינם חופשיים לזוז בתוך המחשב. כדי לוודא
זאת, יש לטלטל את המחשב ולהקשיב לגילוי קולות שקשוק.
חלקי או שבבי מתכת עלולים לגרום לקצרים חשמליים.

Prima di accendere l'elaboratore dopo che é stata effettuata la sostituzione di una FRU, accertarsi che tutte le viti, le molle e tutte le altri parti di piccole dimensioni siano nella corretta posizione e non siano sparse all'interno dell'elaboratore. Verificare ciò scuotendo l'elaboratore e prestando attenzione ad eventuali rumori; eventuali parti o pezzetti metallici possono provocare cortocircuiti pericolosi.

FRU の交換後、コンピュータの電源を入れる前に、ねじ、バネ、その他の小さな部品がすべて正しい位置にあり、またコンピュータの内部で緩んでいないことを確認してください。
これを確認するには、コンピュータを振って、カチャカチャと音がしないか確かめます。金属部品や金属破片はショートの原因になることがあります。

Antes de encender el sistema despues de sustituir una FRU, compruebe que todos los tornillos, muelles y demás piezas pequeñas se encuentran en su sitio y no se encuentran sueltas dentro del sistema. Compruébelo agitando el sistema y escuchando los posibles ruidos que provocarían. Las piezas metálicas pueden causar cortocircuitos eléctricos.

Safety notice 2

⚠ DANGER

Some standby batteries contain a small amount of nickel and cadmium. Do not disassemble a standby battery, recharge it, throw it into fire or water, or short-circuit it. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

Certaines batteries de secours contiennent du nickel et du cadmium. Ne les démontez pas, ne les rechargez pas, ne les exposez ni au feu ni à l'eau. Ne les mettez pas en court-circuit. Pour les mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la pile de sauvegarde ou celle de l'horloge temps réel, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. Une batterie ou une pile inappropriée risque de prendre feu ou d'exploser.

Die Bereitschaftsbatterie, die sich unter dem Diskettenlaufwerk befindet, kann geringe Mengen Nickel und Cadmium enthalten. Sie darf nicht zerlegt, wiederaufgeladen, kurzgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Bereitschafts-oder Systembatterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

סוללות המתנה מסוימות מכילות כמות קטנה
של ניקל וקדמיום. אין לפרק סוללת המתנה,
לטעון אותה מחדש, להשליך אותה לאש או
למים או לקצר אותה. יש לסלק את הסוללה
בנדרש על ידי התקנות והחוקים המקומיים. יש
להשתמש רק בסוללה המופיעה ברשימת החלקים
המתאימה. שימוש בסוללה לא מתאימה עלול
לגרום להצתה או התפוצצות של הסוללה.

Alcune batterie di riserva contengono una piccola quantità di nichel e cadmio. Non smontarle, ricaricarle, gettarle nel fuoco o nell'acqua né cortocircuitarle. Smaltirle secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria dell'RTC (real time clock) o la batteria di supporto, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

予備バッテリーの中には少量のニッケルとカドミウムが含まれているものがあります。したがって、予備バッテリーの分解、再充電、火または水の中への投棄、またはショートさせることは決して行わないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

Algunas baterías de reserva contienen una pequeña cantidad de níquel y cadmio. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

Safety notice 3

⚠ DANGER

The battery pack contains small amounts of nickel. Do not disassemble it, throw it into fire or water, or short-circuit it. Dispose of the battery pack as required by local ordinances or regulations. Use only the battery in the appropriate parts listing when replacing the battery pack. Use of an incorrect battery can result in ignition or explosion of the battery.

La batterie contient du nickel. Ne la démontez pas, ne l'exposez ni au feu ni à l'eau. Ne la mettez pas en court-circuit. Pour la mettre au rebut, conformez-vous à la réglementation en vigueur. Lorsque vous remplacez la batterie, veillez à n'utiliser que les modèles cités dans la liste de pièces détachées adéquate. En effet, une batterie inappropriée risque de prendre feu ou d'exploser.

Akkus enthalten geringe Mengen von Nickel. Sie dürfen nicht zerlegt, wiederaufgeladen, kurzgeschlossen, oder Feuer oder Wasser ausgesetzt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

מארז הסוללה מכיל כמות קטנה של ניקל
וקדמיום. אין לפרק את מארז הסוללה, להשליך
אותו לאש או למים או לקצר אותו. יש לסלק את
מארז הסוללה הסוללה כנדרש על ידי התקנות
והחוקים המקומיים. יש להשתמש רק בסוללה
המופיעה ברשימת החלקים המתאימה בזמן החלפת
מארז הסוללה. שימוש בסוללה לא מתאימה עלול
לגרום להצתה או התפוצצות של הסוללה.

La batteria contiene piccole quantità di nichel. Non smontarla, gettarla nel fuoco o nell'acqua né cortocircuitarla. Smaltirla secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). Quando si sostituisce la batteria, utilizzare soltanto i tipi inseriti nell'appropriato Catalogo parti. L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

バッテリー・パックには少量のニッケルが含まれています。バッテリー・パックを分解したり、火または水の中に投げ込んだり、ショートさせないでください。バッテリー・パックの廃棄にあたっては、地方自治体の条例または規則に従ってください。バッテリー・パックを交換するときは、適切なパーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

Las baterías contienen pequeñas cantidades de níquel. No las desmonte, ni recargue, ni las eche al fuego o al agua ni las cortocircuite. Deséchelas tal como dispone la normativa local. Utilice sólo baterías que se encuentren en la lista de piezas al sustituir la batería. La utilización de una batería no apropiada puede provocar la ignición o explosión de la misma.

Safety notice 4

⚠ DANGER

The lithium battery can cause a fire, an explosion, or a severe burn. Do not recharge it, remove its polarized connector, disassemble it, heat it above 100°C (212°F), incinerate it, or expose its cell contents to water. Dispose of the battery as required by local ordinances or regulations. Use only the battery in the appropriate parts listing. Use of an incorrect battery can result in ignition or explosion of the battery.

La pile de sauvegarde contient du lithium. Elle présente des risques d'incendie, d'explosion ou de brûlures graves. Ne la rechargez pas, ne retirez pas son connecteur polarisé et ne la démontez pas. Ne l'exposez pas à une temperature supérieure à 100°C, ne la faites pas brûler et n'en exposez pas le contenu à l'eau. Mettez la pile au rebut conformément à la réglementation en vigueur. Une pile inappropriée risque de prendre feu ou d'exploser.

Die Systembatterie ist eine Lithiumbatterie. Sie kann sich entzünden, explodieren oder schwere Verbrennungen hervorrufen. Batterien dieses Typs dürfen nicht aufgeladen, zerlegt, über 100 C erhitzt oder verbrannt werden. Auch darf ihr Inhalt nicht mit Wasser in Verbindung gebracht oder der zur richtigen Polung angebrachte Verbindungsstecker entfernt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

סוללת הליתיום עלולה לגרום לשריפה, להתפוצצות או לכוויות קשות. אין לטעון אותה מחדש, לסלק את המחבר המקוטב שלה, לפרק אותה או לחמם אותה לטמפרטורה העולה על 100 מעלות צלזיוס. אין לשרוף את הסוללה ואין לחשוף את תוכן התא למים. יש לסלק את הסוללה כנדרש בתקנות ובחוקים המקומיים. יש להשתמש רק בסוללה המופיעה ברשימת החלקים המתאימים. שימוש בסוללה אחרת עלול לגרום לסכנת שריפה או התפוצצות.

La batteria di supporto e una batteria al litio e puo incendiarsi, esplodere o procurare gravi ustioni. Evitare di ricaricarla, smontarne il connettore polarizzato, smontarla, riscaldarla ad una temperatura superiore ai 100 gradi centigradi, incendiarla o gettarla in acqua. Smaltirla secondo la normativa in vigore (DPR 915/82, successive disposizioni e disposizioni locali). L'impiego di una batteria non adatta potrebbe determinare l'incendio o l'esplosione della batteria stessa.

リチウム・バッテリーは、火災、爆発、または重症のやけどを引き起こすことがあります。バックアップ・バッテリーの充電、その極性コネクターの取り外し、バッテリー本体の分解、
100 ℃ (212 ˚F) 以上への加熱、焼却、電池の中身を水に浸すことはしないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

La batería de repuesto es una batería de litio y puede provocar incendios, explosiones o quemaduras graves. No la recargue, ni quite el conector polarizado, ni la desmonte, ni caliente por encima de los 100°C (212°F), ni la incinere ni exponga el contenido de sus celdas al agua. Deséchela tal como dispone la normativa local.

Safety notice 5

If the LCD breaks and the fluid from inside the LCD gets into your eyes or on your hands, immediately wash the affected areas with water at least for 15 minutes. Seek medical care if any symptoms caused by the fluid are present after washing.

Si le panneau d'affichage à cristaux liquides se brise et que vous recevez dans les yeux ou sur les mains une partie du fluide, rincez-les abondamment pendant au moins quinze minutes. Consultez un médecin si des symptômes persistent après le lavage.

Die Leuchtstoffröhre im LCD-Bildschirm enthält Quecksilber. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Der LCD-Bildschirm besteht aus Glas und kann zerbrechen, wenn er unsachgemäß behandelt wird oder der Computer auf den Boden fällt. Wenn der Bildschirm beschädigt ist und die darin befindliche Flüssigkeit in Kontakt mit Haut und Augen gerät, sollten die betroffenen Stellen mindestens 15 Minuten mit Wasser abgespült und bei Beschwerden anschließend ein Arzt aufgesucht werden.

אם מסך הגביש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע
עם עיניכם או ידיכם, שטפו את האזורים הנגועים מיד במים במשך
15 דקות לפחות. פנו לקבלת עזרה רפואית אם תסמינים הנובעים
מהמגע עם הנוזל נמשכים לאחר השטיפה.

Nel caso che caso l'LCD si dovesse rompere ed il liquido in esso contenuto entrasse in contatto con gli occhi o le mani, lavare immediatamente le parti interessate con acqua corrente per almeno 15 minuti; poi consultare un medico se i sintomi dovessero permanere.

LCD が破損し、 LCD の中の液体が目に入ったり、手に触れたりした場合は、液体が触れた部分を少なくとも 15 分間洗い流してください。洗い流した後に、液体によって何らかの症状が現れた場合は、医師の治療を受けてください。

Si la LCD se rompe y el fluido de su interior entra en contacto con sus ojos o sus manos, lave inmediatamente las áreas afectadas con agua durante 15 minutos como mínimo. Obtenga atención medica si se presenta algún síntoma del fluido despues de lavarse.

Safety notice 6

⚠ DANGER

To avoid shock, do not remove the plastic cover that protects the lower part of the inverter card.

Afin d'éviter tout risque de choc électrique, ne retirez pas le cache en plastique protégeant la partie inférieure de la carte d'alimentation.

Aus Sicherheitsgründen die Kunststoffabdeckung, die den unteren Teil der Spannungswandlerplatine umgibt, nicht entfernen.

כדי למנוע התחשמלות, אין להסיר את מכסה הפלסטיק
המגן על חלקו התחתון של הברטיס ההפוך.

Per evitare scosse elettriche, non rimuovere la copertura in plastica che avvolge la parte inferiore della scheda invertitore.

感電を防ぐため、インバーター・カードの下部を保護しているプラスチック・カバーを外さないでください。

Para evitar descargas, no quite la cubierta de plástico que rodea la parte baja de la tarjeta invertida.

Safety notice 7

⚠ DANGER

Though the main batteries have low voltage, a shorted or grounded battery can produce enough current to burn personnel or combustible materials.

Bien que le voltage des batteries principales soit peu élevé, le court-circuit ou la mise à la masse d'une batterie peut produire suffisamment de courant pour brûler des matériaux combustibles ou causer des brûlures corporelles graves.

Obwohl Hauptbatterien eine niedrige Spannung haben, können sie doch bei Kurzschluß oder Erdung genug Strom abgeben, um brennbare Materialien zu entzünden oder Verletzungen bei Personen hervorzurufen.

אף שהסוללות הראשיות הן בעלות מתח נמוך, סוללה
מקוצרת או מוארקת עלולה להפיק זרם משפיק לגרימת
כוויות או להצתת חומרים דליקים.

Sebbene le batterie di alimentazione siano a basso voltaggio, una batteria in corto circuito o a massa può fornire corrente sufficiente da bruciare materiali combustibili o provocare ustioni ai tecnici di manutenzione.

メイン・バッテリーの電圧は低くても、ショートしたり、接地したバッテリーが、作業者にやけどを負わせたり、可燃物を燃やすだけの電流を発生させる場合があります。

Aunque las baterías principales tienen un voltaje bajo, una batería cortocircuitada o con contacto a tierra puede producir la corriente suficiente como para quemar material combustible o provocar quemaduras en el personal.

Safety notice 8

⚠ DANGER

Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any interconnecting cables.

Avant de retirer une unité remplaçable en clientèle, mettez le système hors tension, débranchez tous les cordons d'alimentation des socles de prise de courant, retirez la batterie et déconnectez tous les cordons d'interface.

Die Stromzufuhr muß abgeschaltet, alle Stromkabel aus der Steckdose gezogen, der Akku entfernt und alle Verbindungskabel abgenommen sein, bevor eine FRU entfernt wird.

לפני סילוק FRU כלשהו, יש לכבות את המחשב,
לנתק את כל כבלי החשמל משקעי החשמל, להוציא
את מארז הסוללה, ואז לנתק כבלי חיבור אחרים
אם יש כאלה.

Prima di rimuovere qualsiasi FRU, spegnere il sistema, scollegare dalle prese elettriche tutti i cavi di alimentazione, rimuovere la batteria e poi scollegare i cavi di interconnessione.

FRU を取り外す前に、 ThinkPad の電源を切って、すべての電源コードをコンセントから外してください。次に、バッテリー・パックを外し、相互接続ケーブルを外してください。

Antes de quitar una FRU, apague el sistema, desenchufe todos los cables de las tomas de corriente eléctrica, quite la batería y, a continuación, desconecte cualquier cable de conexión entre dispositivos.

Laser compliance statement

Some models of Lenovo IdeaPad computer are equipped from the factory with an optical storage device such as a CD-ROM drive or a DVD-ROM drive. Such devices are also sold separately as options. If one of these drives is installed, it is certified in the U.S. to conform to the requirements of the Department of Health and Human Services 21 Code of Federal Regulations (DHHS 21 CFR) Subchapter J for Class 1 laser products. Elsewhere, the drive is certified to conform to the requirements of the International Electrotechnical Commission (IEC) 825 and CENELEC EN 60 825 for Class 1 laser products.

If a CD-ROM drive, a DVD-ROM drive, or another laser device is installed, note the following:

⚠ CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

O uso de controles, ajustes ou desempenho de procedimentos diferentes daqueles aqui especificados pode resultar em perigosa exposição à radiação.

凡未在这里指明的任何控制用法、调整、行为，
都会导致严重后果。

Pour éviter tout risque d'exposition au rayon laser, respectez les consignes de réglage et d'utilisation des commandes, ainsi que les procédures décrites.

Werden Steuer- und Einstellelemente anders als hier festgesetzt verwendet, kann gefährliche Laserstrahlung auftreten.

Az itt előírt eljárásoktól, beállításoktól és vezérlésektől
eltérni a lézersugárzás veszélye miatt kockázatos !

L'utilizzo di controlli, regolazioni o l'esecuzione di procedure diverse da quelle specificate possono provocare l'esposizione a.

Использование элементов настройки и
выполнение процедур иных, чем указано
здесь, может привести к опасному
радиационному облучению.

Použitie kontrôl, úprav alebo iných vykonaní od iných
výrobcov, ako je v tomto špecifikované, mohlo by mať
za následok nebezpečenstvo vystavenia sa vyžiarovaniu.

本書で指定された内容以外の、お客様による整備、調整、または手順を行った場合、レーザー光の放射の危険があります。

El uso de controles o ajustes o la ejecución de procedimientos distintos de los aquí especificados puede provocar la exposición a radiaciones peligrosas.

Opening the CD-ROM drive, the DVD-ROM drive, or any other optical storage device could result in exposure to hazardous laser radiation. There are no serviceable parts inside those drives. **Do not open**.

A CD-ROM drive, a DVD-ROM drive, or any other storage device installed may contain an embedded Class 3A or Class 3B laser diode. Note the following:

⚠ DANGER

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

Radiação por raio laser ao abrir. Não olhe fixo no feixe de luz, não olhe diretamente por meio de instrumentos óticos e evite exposição direta com o feixe de luz.

开启时会有激光发射时，请勿盯视激光光束，请勿直接查看
视觉仪器，并且避免直接接触在激光光束之中。

Rayonnement laser si carter ouvert. Évitez de fixer le faisceau, de le regarder directement avec des instruments optiques, ou de vous exposer au rayon.

Laserstrahlung bei geöffnetem Gerät. Nicht direkt oder über optische Instrumente in den Laserstrahl sehen und den Strahlungsbereich meiden.

Kinyitáskor lézersugár ! Ne nézzen bele se szabad szemmel, se optikai eszközökkel. Kerülje a sugárnyalábbal való érintkezést!

Aprendo l'unità vengono emesse radiazioni laser. Non fissare il fascio, non guardarlo direttamente con strumenti ottici e evitare l'esposizione diretta al fascio.

Открывая, берегитесь лазерного излучения.
Не смотрите на луч, не разглядывайте его
с помощью оптических инструментов, а также
избегайте прямого воздействия лазерного луча.

Keď je laserová jednotka otvorená. Vyhnite sa priamemu
pohľadu a nehľadte priamo s optickými nástrojmi do ľúča
a vyhnite sa priamemu vystaveniu ľúčov.

開けるとレーザー光が放射されます。光線を見つめたり、光学機械を使って直接見たりしないでください。

Radiación láser al abrir. No mire fijamente ni examine con instrumental óptico el haz de luz. Evite la exposición directa al haz.

Important service information

This chapter presents the following important service information:

- "Strategy for replacing FRUs" on page 16
  - "Strategy for replacing a hard disk drive" on page 17
  - "Important notice for replacing a system board " on page 17
- "Important information about replacing RoHS compliant FRUs" on page 18

Important:

BIOS and device driver fixes are customer-installable. The BIOS and device drivers are posted on the customer support site: http://consumersupport.lenovo.com/.

Strategy for replacing FRUs

Before replacing parts:

Make sure that all software fixes, drivers, and BIOS downloads are installed before replacing any FRUs listed in this manual.

After a system board is replaced, ensure that the latest BIOS is loaded to the system board before completing the service action.

To download software fixes, drivers, and BIOS, follow the steps below:

1. Go to http://consumersupport.lenovo.com/.
2. Enter a serial number or select a product or use Lenovo smart downloading.
3. Select the BIOS/Driver/Applications and download.
4. Follow the directions on the screen and install the necessary software.

Use the following strategy to prevent unnecessary expense for replacing and servicing FRUs:

- If you are instructed to replace an FRU, but the replacement does not solve the problem, reinstall the original FRU before you continue.
- Some computers have both a processor board and a system board. If you are instructed to replace either of them, and replacing one of them does not solve the problem, reinstall that board, and then replace the other one.
- If an adapter or a device consists of more than one FRU, any of the FRUs may be the cause of the error. Before replacing the adapter or device, remove the FRUs one by one to see if the symptoms change. Replace only the FRU that changed the symptoms.

Attention: The setup configuration on the computer you are servicing may have been customized. Running Automatic Configuration may alter the settings. Note the current configuration settings (using the View Configuration option); then, when service has been completed, verify that those settings remain in effect.

Strategy for replacing a hard disk drive

Always try to run a low-level format before replacing a hard disk drive. This will cause all customer data on the hard disk to be lost. Make sure that the customer has a current backup of the data before performing this action.

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

Important notice for replacing a system board

Some components mounted on a system board are very sensitive. Improper handling can cause damage to those components, and may cause a system malfunction.

Attention: When handling a system board:

- Do not drop the system board or apply any excessive force to it.
- Avoid rough handling of any kind.
- Avoid bending the system board and hard pushing to prevent cracking at each BGA (Ball Grid Array) chipset.

Important information about replacing RoHS compliant FRUs

RoHS, The Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (2002/95/EC) is a European Union legal requirement affecting the global electronics industry. RoHS requirements must be implemented on Lenovo products placed on the market after June 2006. Products on the market before June 2006 are not required to have RoHS compliant parts. If the original FRU parts are non-compliant, replacement parts can also be non-compliant. In all cases if the original FRU parts are RoHS compliant, the replacement part must also be RoHS compliant.

Note: RoHS and non-RoHS FRU part numbers with the same fit and function are identified with unique FRU part numbers.

Lenovo plans to transit to RoHS compliance well before the implementation date and expects its suppliers to be ready to support Lenovo's requirements and schedule in the EU. Products sold in 2005 and 2006 will contain some RoHS compliant FRUs. The following statement pertains to these products and any product Lenovo produces containing RoHS compliant FRUs.

RoHS compliant FRUs have unique FRU part numbers. Before or after the RoHS implementation date, failed RoHS compliant parts must always be replaced with RoHS compliant ones, so only the FRUs identified as compliant in the system HMM or direct substitutions for those FRUs may be used.

Products marketed before June 2006		Products marketed after June 2006	
Current or original part	**Replacement FRU**	**Current or original part**	**Replacement FRU**
Non-RoHS	Can be Non-RoHS	Must be RoHS	Must be RoHS
Non-RoHS	Can be RoHS		
Non-RoHS	Can sub to RoHS		
RoHS	Must be RoHS		

Note: A direct substitution is a part with a different FRU part number that is automatically shipped by the distribution center at the time of the order.

General checkout

This chapter presents the following information:

- "What to do first" on page 20
- "Power system checkout" on page 21

Before you go to the checkout, make sure to read the following important notes:

Important notes:

- **Only certified trained personnel can service the computer.**
- **Before replacing any FRU, read the entire page on removing and replacing FRUs.**
- **When you replace FRUs, use new nylon-coated screws.**
- **Be extremely careful during such write operations as copying, saving, or formatting.** Drives in the computer that you are servicing sequence might have been altered. If you select an incorrect drive, data or programs might be overwritten.
- **Replace an FRU only with another FRU of the correct model.** When you replace an FRU, make sure that the machine model and the FRU part number are correct by referring to the FRU parts list.
- **An FRU should not be replaced just because of a single, unreproducible failure.** Single failures can occur for a variety of reasons that have nothing to do with a hardware defect, such as cosmic radiation, electrostatic discharge, or software errors. Consider replacing an FRU only when a problem recurs. If you suspect that an FRU is defective, clear the error logs and run the test again. If the error does not recur, do not replace the FRU.
- **Be careful not to replace a nondefective FRU.**

What to do first

When you do return an FRU, you must include the following information in the parts exchange form or parts return form that you attach to it:

1. Name and phone number of servicer
2. Date of service
3. Date on which the machine failed
4. Date of purchase
5. Procedure index and page number in which the failing FRU was detected
6. Failing FRU name and part number
7. Machine type, model number, and serial number
8. Customer's name and address

Note for warranty: During the warranty period, the customer may be responsible for repair costs if the computer damage was caused by misuse, accident, modification, unsuitable physical or operating environment, or improper maintenance by the customer.

The following is a list of some common items that are not covered under warranty and some symptoms that might indicate that the system was subjected to stress beyond normal use.

Before checking problems with the computer, determine whether the damage is covered under the warranty by referring to the following list:

The following are not covered under warranty:

- LCD panel cracked from the application of excessive force or from being dropped
- Scratched (cosmetic) parts
- Distortion, deformation, or discoloration of the cosmetic parts
- Plastic parts, latches, pins, or connectors that have been cracked or broken by excessive force
- Damage caused by liquid spilled into the system
- Damage caused by the improper insertion of a PC Card or the installation of an incompatible card
- Improper disc insertion or use of an optical drive
- Diskette drive damage caused by pressure on the diskette drive cover, foreign material in the drive, or the insertion of a diskette with multiple labels
- Damaged or bent diskette eject button
- Fuses blown by attachment of a nonsupported device
- Forgotten computer password (making the computer unusable)
- Sticky keys caused by spilling a liquid onto the keyboard
- Use of an incorrect AC adapter on laptop products

The following symptoms might indicate damage caused by nonwarranted activities:

- Missing parts might be a symptom of unauthorized service or modification.
- If the spindle of a hard disk drive becomes noisy, it may have been subjected to excessive force, or dropped.

Power system checkout

To verify a symptom, follow the steps below:

1. Turn off the computer.
2. Remove the battery pack.
3. Connect the AC adapter.
4. Make sure that power is supplied when you turn on the computer.
5. Turn off the computer.
6. Disconnect the AC adapter and install the charged battery pack.
7. Make sure that the battery pack supplies power when you turn on the computer.

If you suspect a power problem, see the appropriate one of the following power supply checkouts:

- “Checking the AC adapter ” on page 21
- “Checking operational charging” on page 21
- “Checking the battery pack ” on page 22

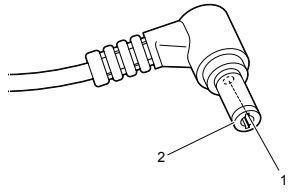
Checking the AC adapter

You are here because the computer fails only when the AC adapter is used.

- If the power-on indicator does not turn on, check the power cord of the AC adapter for correct continuity and installation.
- If the computer does not charge during operation, go to “Checking operational charging”.

To check the AC adapter, follow the steps below:

1. Unplug the AC adapter cable from the computer.
2. Measure the output voltage at the plug of the AC adapter cable. See the following figure:



Pin	Voltage (V DC)
1	+20
2	0

Note: Output voltage for the AC adapter pin No. 2 may differ from the one you are servicing.

3. If the voltage is not correct, replace the AC adapter.
4. If the voltage is acceptable, do the following:

- Replace the system board.
- If the problem continues, go to “Lenovo IdeaPad S100c” on page 27.

Note: Noise from the AC adapter does not always indicate a defect.

Checking operational charging

To check whether the battery charges properly during operation, use a discharged battery pack or a battery pack that has less than 50% of the total power remaining when installed in the computer.

Perform operational charging. If the battery status indicator or icon does not light on, remove the battery pack and let it return to room temperature. Reinstall the battery pack. If the charge indicator or icon is still off, replace the battery pack.

If the charge indicator still does not light on, replace the system board. Then reinstall the battery pack. If it is still not charged, go to the next section.

Checking the battery pack

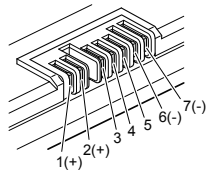
Battery charging does not start until the Power Meter shows that less than 95% of the total power remains; under this condition the battery pack can charge to 100% of its capacity. This protects the battery pack from being overcharged or from having a shortened life.

To check your battery, move your cursor to the Power Meter icon in the icon tray of the Windows® taskbar and wait for a moment (but do not click it), and the percentage of battery power remaining is displayed. To get detailed information about the battery, double-click the Power Meter icon.

Note: If the battery pack becomes hot, it may not be able to be charged. Remove it from the computer and leave it at room temperature for a while. After it cools down, reinstall and recharge it.

To check the battery pack, follow the steps below:

1. Turn off the computer.
2. Remove the battery pack and measure the voltage between battery terminals 1 (+) and 7 (-). See the following figure:



Terminal	Voltage (V DC)
1	+0 to +14
7	Ground (-)

3. If the voltage is less than +11.0 V DC, the battery pack has been discharged.

   Note: Recharging will be continued for at least 3 hours, even though the indicator does not light on.

   If the voltage is still less than +11.0 V DC after recharging, replace the battery.
4. If the voltage is more than +11.0 V DC, measure the resistance between battery terminals 5 and 7. The resistance must be 4 to 30 KΩ.

   If the resistance is not correct, replace the battery pack. If the resistance is correct, replace the system board.

Related service information

This chapter presents the following information:

- “Restoring the factory contents by using OneKey Recovery” on page 23
- “Passwords” on page 24
- “Power management” on page 25

Restoring the factory contents by using OneKey Recovery

Restore of factory default

The IdeaPad S100c computers come with pre-installed OneKey Rescue System.In order to save application files and the initial backed up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, just enter Lenovo OneKey Rescue System and run **Restore to factory default**. For details of OneKey Rescue System, see *the User Guide for OneKey Rescue System*.

Note: This will delete all the new data on the system partition (C drive), which is not recoverable. Make sure to back up your critical data before you perform this action.

Using recovery discs

When you replace a hard disk drive in your computer, you are unable to use the pre-installed Lenovo OneKey Recovery and OneKey Rescue. However, you can use the recovery discs that store your backed up data to restore your new hard drive to a previous backup status.

Note: You can create recovery discs by burning the backup image to a CD/DVD as recovery discs. For details of **Create recovery discs**, see *the User Guide for OneKey Rescue System*.

When you use the recovery discs to boot your computer, the system will enter the user interface for system recovery automatically. Please follow the prompt to insert the backup discs to complete the whole recovery process.

Note: The recovery process might take up to 2 hours.

Passwords

Using passwords helps prevent your computer from being used by others. Once you set a password and enable it, a prompt appears on the screen each time you power on the computer. Enter your password at the prompt. The computer cannot be used unless you enter the correct password.

Note: This password can be from one to seven alphanumeric characters in any combination.

For details about how to set the password, see the Help to the right of the screen in BIOS setup utility.

Note: To enter BIOS setup utility, press **F2** when the Lenovo logo appears on the screen while the computer is starting up.

Power management

Note: Power management modes are not supported for APM operating system.

To reduce power consumption, the computer has three power management modes: screen blank, sleep (standby), and hibernation.

Putting your computer into sleep state or shutting it down

When you finish working with your computer, you can put it into sleep state or shut it down.

Putting your computer into sleep state

If you will be away from your computer for only a short time, put the computer into sleep state.
When the computer is in sleep state, you can quickly wake it to resume use, and bypass the startup process.

To put the computer into sleep state, do one of the following.

- Click and select **Sleep** from the Start menu.
- Press **Fn** + **F1**.

Note: Wait until the power indicator light starts blinking (indicating that the computer is in sleep state) before you move your computer. Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data.

To wake the computer, do one of the following.

- Press the power button.
- Press any key on the keyboard.

Shutting down your computer

If you are not going to use your computer for a day or two, shut it down. To shut down your computer, click and select **Shut down** from the Start menu.

Lenovo IdeaPad S100c

This chapter presents the following product-specific service references and product-specific parts information:

- "Specifications" on page 27
- "Status indicators" on page 29
- "Fn key combinations" on page 31
- "FRU replacement notices" on page 32
- "Removing and replacing an FRU" on page 33
- "Locations" on page 65
- "Parts list" on page 67

Specifications

The following table lists the specifications of the Lenovo IdeaPad S100c :

Table 1. Specifications

Feature	Description
Processor	• Intel Atom N 455 (1.66G Hz)
Core Chipset	• Intel Tigerpoint NM10
Bus architecture	• 667-MHz FSB • Support DDR3 at data transfer rate of 667MT/s • PCI bus • PCI Express bus • DMI x 2, 10Gb/s
Graphic memory chip	• Intel integrated
Display	• 10.1" Wedge Type: 1024x600 LED B/L
Standard memory	• DDR3 1600/1333MHz DIMM socket x 1 (max 2GB)
CMOS RAM	• 256 bytes
Hard disk drive	• 2.5" SATA 320G/500G (5400rpm)
Optical drive	• N/A • Support USB ODD
I/O port	• CRT port x 1 (on planar) • Headphone Jack x 1 (on planar) • Mic-In Jack x 1 (on planar) • RJ45 x 1 (on planar) • USB2.0 x 3 (on planar) • 4-in-1 media card reader
MODEM slot	• N/A
Audio	• Headphone Jack x 1 (on planar) • Mic-In Jack x 1 (on planar)
Video	• CRT port x 1 (on planar)

Table 1. Specifications (continued)

Feature	Description
Ethernet (on the system board)	• 10/100M Ethernet Controller Realtek RTL8105E-VL-CG
PCI Express Mini Card slot	• 1 slot for WLAN card • 1 slot for WWAN card
SIM Card Slot	• WWAN SIM card slot x1 (on planar but only enable on WWAN SKU)
WLAN card	• Castlenet/RTL8188CE, 启基/DNXA-125, Bitland/ RTL8188CEVL
WWAN card	• TD-SCDMA
Bluetooth wireless	• 启基/DHXA-225, Castlenet/RTL8188CEVL
Keyboard	• 6 row Lenovo Keyboard
Touch pad	• Yes (no TrackPoint)
Speaker	• 1.5W Built-in Stereo Speakers with chamber
Internal Microphone	• Single analog, not array microphone
Integrated camera	• 0.3 mega pixels
Battery	• 2.2Ah, 3 cell Li-ion Battery • 2.2Ah, 6 cell Li-ion Battery
AC adapter	• 30W/20V
Pre-installed operating system	• Windows 7 starter • Windows 7 HB • DOS

Status indicators

The system status indicators below show the computer status:

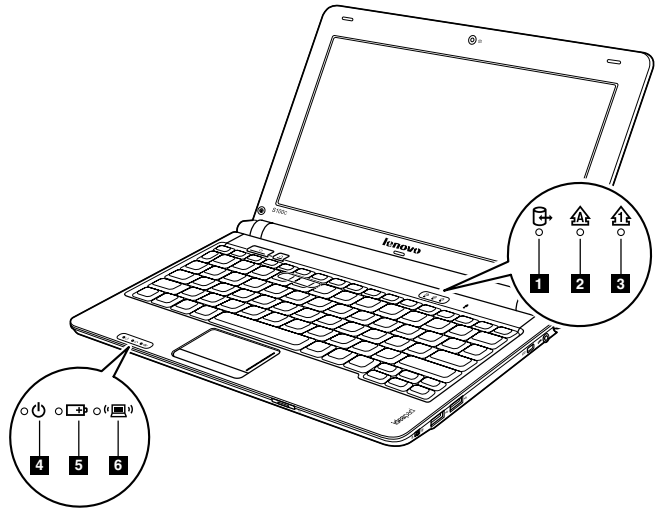


Table 2. Status indicators

Indicator	Meaning
1 Hard disk drive	**White:** Data is being read from or written to the hard disk drive. When this indicator is on, do not put the computer into standby mode or turn off the computer. **Note:** Do not move the system while the white drive-in-use light is on. Sudden physical shock could cause drive errors.
2 Caps lock	**White:** Caps Lock mode is enabled. You can enter all alphabetic characters (A-Z) in uppercase without pressing the Shift key. To enable or disable Caps Lock mode, press the CapsLk key.
3 Num lock	**White:** The numeric keypad on the keyboard is enabled. To enable or disable the keypad, press and hold the Fn key, and press the Insert (NmLk) key.

Table 2. Status indicators (continued)

Indicator	Meaning
4 Power status	**White:** System is enabled. **Blinking white:** System is in sleep mode. **Off:** System is in hibernate mode or shut down.
5 Battery status	**Blinking amber:** (500ms off/1s on) The remaining power of the battery is less than 5% of its capacity. **Blinking amber:** (100ms off/3.2s on) The battery is being charged with the remaining power between 5% and 20% of its capacity. **Amber:** The computer is operating on battery power with the remaining power between 5% and 20% of its capacity. **Blinking white:** The battery is being charged with the remaining power between 20% and 80% of its capacity. **White:** The remaining power of the battery is more than 80% of its capacity, or the computer is operating on battery power with the remaining power between 20% and 80% of its capacity.
6 Wireless communication	**White:** The wireless LAN radio is turned on and connected to AP. **Blinking white:** The wireless LAN is switched on and the radio of it is also turned off, or the wireless LAN radio is turned on and not connected to AP. **Flashing white:** The wireless LAN radio is turned on and data is being transmitted. **Off:** The wireless LAN is switched off and the radio of it is also turned off.

Fn key combinations

The following table shows the function of each combination of Fn with a function key.

Table 4. Fn key combinations

Key combination	Description
Fn + Esc:	Turn on/off the integrated camera.
Fn + F1:	Enter sleep mode.
Fn + F2:	Turn on/off the backlight of the LCD screen.
Fn + F3:	Open the interface for the display device switch to select this notebook or an external display.
Fn + F5:	Open the interface for integrated wireless devices settings (on/off).
Fn + F8:	Enable/Disable the touchpad.
Fn + F9:	Start/Pause playback of Windows Media Player.
Fn + F10:	Stop playback of Windows Media Player.
Fn + F11:	Skip to the previous track.
Fn + F12:	Skip to the next track.
Fn + PrtSc:	Activate the system request.
Fn + Pause:	Activate the break function.
Fn + Delete:	Enable/Disable the scroll lock.
Fn + ↑/ ↓:	Increase/Decrease display brightness.
Fn + →/ ←:	Increase/Decrease sound volume.

FRU replacement notices

This section presents notices related to removing and replacing parts. Read this section carefully before replacing any FRU.

Screw notices

Loose screws can cause a reliability problem. In the Lenovo IdeaPad computer, this problem is addressed with special nylon-coated screws that have the following characteristics:

- They maintain tight connections.
- They do not easily come loose, even with shock or vibration.
- They are harder to tighten.
- Each one should be used only once.

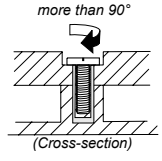
Do the following when you service this machine:

- Keep the screw kit in your tool bag.
- Always use new screws.
- Use a torque screwdriver if you have one.

Tighten screws as follows:

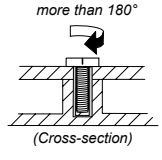
- **Plastic to plastic**

  Turn an additional 90° after the screw head touches the surface of the plastic part:



- **Logic card to plastic**

  Turn an additional 180° after the screw head touches the surface of the logic card:



- **Torque driver**

  If you have a torque screwdriver , refer to the “Torque” column for each step.
- Make sure that you use the correct screws. If you have a torque screwdriver, tighten all screws firmly to the torque shown in the table. **Never use a screw that you removed. Use a new one. Make sure that all screws are tightened firmly.**
- Ensure torque screwdrivers are calibrated correctly following country specifications.

Removing and replacing an FRU

This section presents exploded figures with the instructions to indicate how to remove and replace the FRU. Make sure to observe the following general rules:

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review “FRU replacement notices” on page 32.
3. Begin by removing any FRUs that have to be removed before the failing FRU. Any of such FRUs are listed at the top of the page. Remove them in the order in which they are listed.
4. Follow the correct sequence in the steps to remove the FRU, as given in the figures by the numbers in square callouts.
5. When turning a screw to replace an FRU, turn it in the direction as given by the arrow in the figure.
6. When removing the FRU, move it in the direction as given by the arrow in the figure.
7. To put the new FRU in place, reverse the removal procedures and follow any of the notes that pertain to replacement. For information about connecting and arranging internal cables, see “Locations” on page 65.
8. When replacing an FRU, use the correct screw as shown in the procedures.

> **⚠ DANGER**
>
> Before removing any FRU, turn off the computer, unplug all power cords from electrical outlets, remove the battery pack, and then disconnect any of the interconnecting cables.

Attention: After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can cause electrical short circuits.

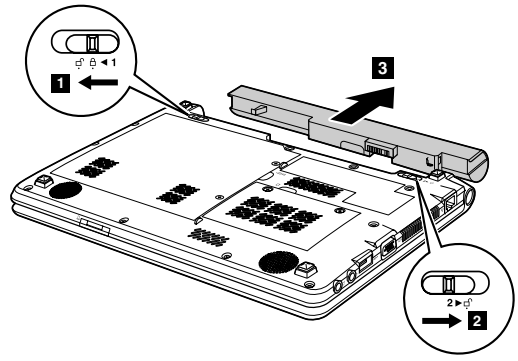
Attention: The system board is sensitive to, and can be damaged by, electrostatic discharge. Before touching it, establish personal grounding by touching a ground point with one hand or using an electrostatic discharge (ESD) strap (P/N 6405959) to remove potential shock reasons.

1010 Battery pack

> ⚠ **DANGER**
>
> Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

Figure 1. Removal steps of battery pack

Unlock the battery release lever **1**. Holding the battery release lever in the unlocked position **2**, remove the battery pack in the direction shown by arrow **3**.

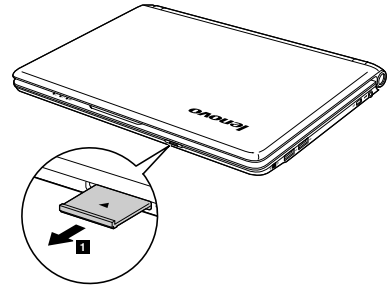


When installing: Install the battery pack along the slide rails of the slot. Then make sure that the battery release lever is in the locked position.

1020 Dummy cards

For access, remove this FRU:
- “1010 Battery pack” on page 34

Figure 2. Removal steps of dummy cards
Remove the dummy card in the direction shown by arrow **1**.



1030 Hard disk drive (HDD) slot cover and HDD

For access, remove this FRU:
- “1010 Battery pack” on page 34

Attention:
- **Do not drop the hard disk drive or apply any physical shock to it.** The hard disk drive is sensitive to physical shock. Improper handling can cause damages and permanent loss of data.
- Before removing the drive, suggest the customer to backup all the information on it if possible.
- Never remove the drive while the system is operating or is in suspend mode.

Figure 3. Removal steps of HDD slot cover and HDD

Note: Loosen the screws **1**, but do not remove them.
Remove the HDD slot cover in the direction shown by arrow **2**.

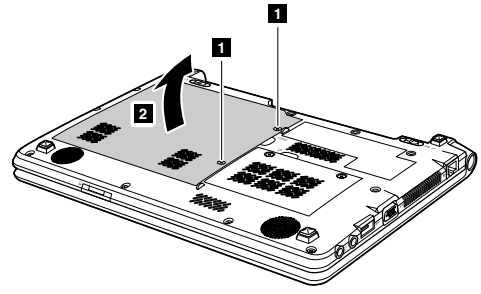
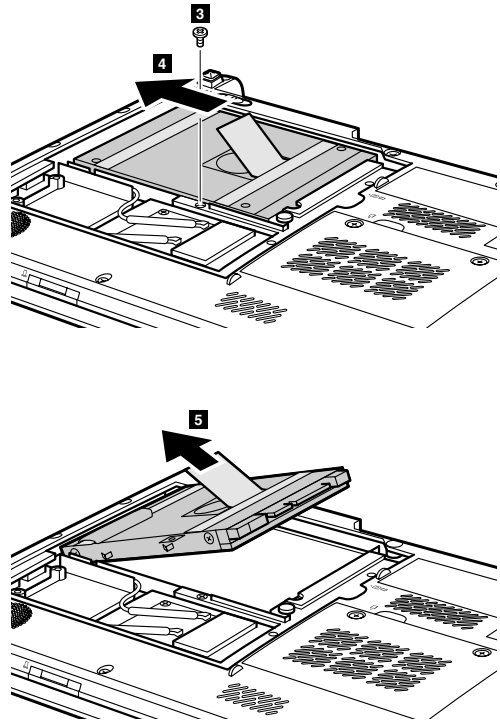


Figure 3. Removal steps of HDD slot cover and HDD (continued)

Remove the screw **3**, pull the tab up in the direction shown by arrows **4** **5** to remove the hard disk drive from the slot.



Step	Screw (quantity)	Color	Torque
3	M2 × 4 mm, flat-head, nylok-coated (1)	Black or Silver	1.85 kgfcm

When installing: Make sure that the HDD connector is attached firmly.

1040 DIMM cover

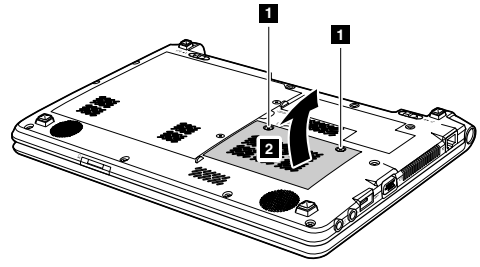
For access, remove this FRU:

- “1010 Battery pack” on page 34

Figure 4. Removal steps of thermal slot cover

Note: Loosen the screws **1**, but do not remove them.

Remove the thermal slot cover in the direction shown by arrow **2**.



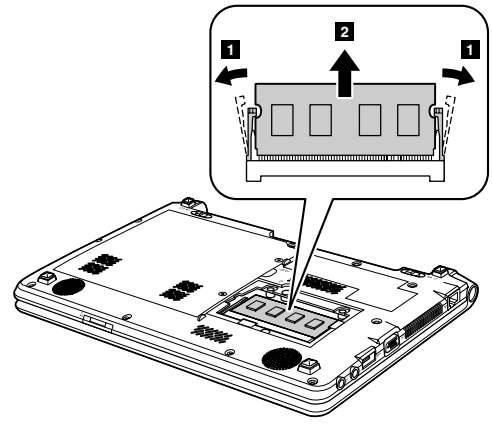
1050 DIMM

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1040 DIMM cover” on page 38

Figure 5. Removal steps of DIMM

Release the two latches on both edges of the socket at the same time in the direction shown by arrows **1**, and then unplug the DIMM in the direction shown by arrow **2**.

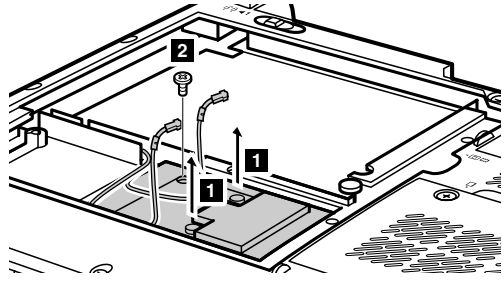


When installing: Insert the notched end of the DIMM into the socket. Push the DIMM firmly, and pivot it until it snaps into the place. Make sure that it is firmly fixed in the slot and difficult to be moved.

1060 PCI Express Mini Card for wireless LAN/WAN

For access, remove these FRUs in order:
- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36

Figure 6. Removal steps of PCI Express Mini Card for wireless LAN/WAN



Disconnect the two wireless LAN cables (black, white) **1**, and then remove the screw **2**.

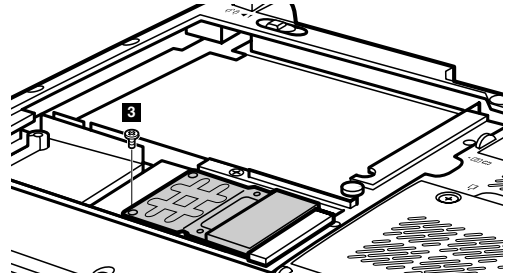
In step **1**, unplug the jacks by using the removal tool antenna RF connector (P/N: 08K7159), or pick up the connectors with your fingers and gently unplug them in the direction shown by arrows.

Notes: wireless LAN card has 2 cables in step **1**.
wireless LAN card in some models may have 3 cables in step **1**.

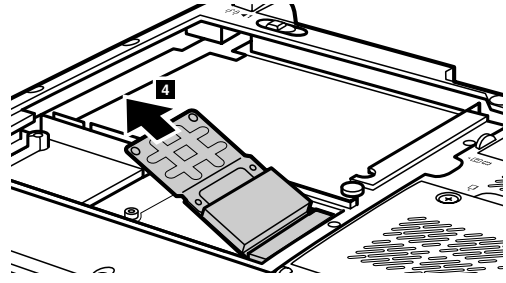
Step	Screw (quantity)	Color	Torque
2	M2 × 3.5 mm, flat-head, nylok-coated (1)	Black or Silver	1.85 kgfcm

Figure 6. Removal steps of PCI Express Mini Card for wireless LAN/WAN (continued)

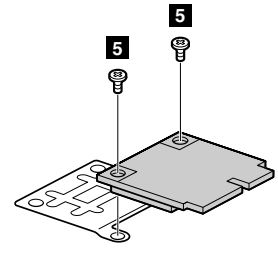
Remove screw **3**.



Remove the card with bracket in the direction shown by arrow **4**.



Remove two screws **5**, and then remove the card from the bracket.



When installing:

- In models with a wireless LAN card that has two antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled **1**, and the white cable (2nd) (AUX) into jack labeled **2** on the card.
- In models with a wireless LAN card that has three antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled **1**, the grey cable (3rd) into jack labeled **3**, and the white cable (2nd) (AUX) into jack labeled **2** on the card.

1070 Keyboard cover, keyboard and LED board

For access, remove this FRU:
- “1010 Battery pack” on page 34

Figure 7. Removal steps of keyboard cover, keyboard and LED board
Open the LCD at an angle about 120°.
Lift the keyboard cover with fingers in the direction shown by arrows **1**.

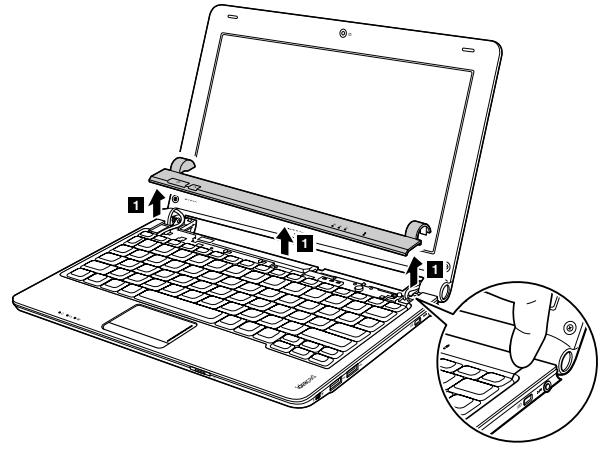
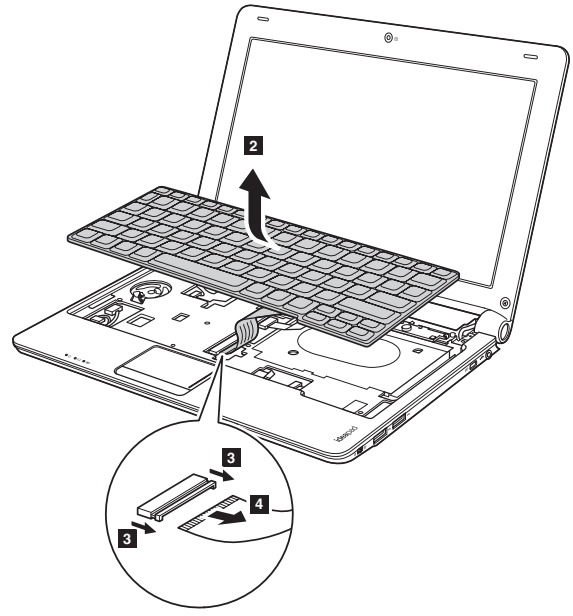


Figure 7. Removal steps of keyboard cover, keyboard and LED board

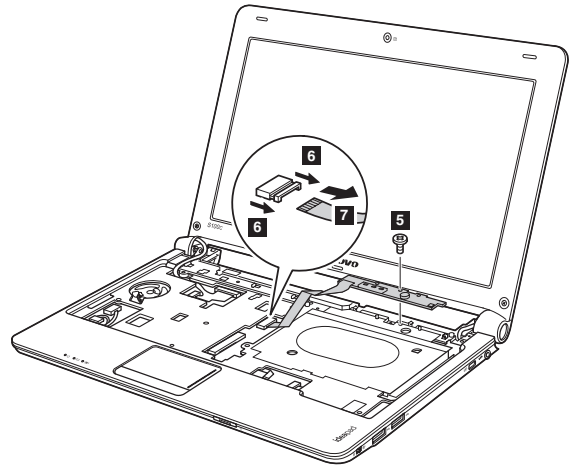
Lift the keyboard a little **2**, and then detach the connector in the direction shown by arrows **3** **4**.



When installing: Make sure that the FPC connector is attached firmly.

Figure 7. Removal steps of keyboard cover, keyboard and LED board (continued)

Remove one screw **5**, detach the LED connector in the direction shown by arrows **6** **7**, and then remove the LED board.



Step	Screw (quantity)	Color	Torque
5	M2 × 4 mm, flat-head, nylok-coated (1)	Black or Silver	1.85 kgfcm

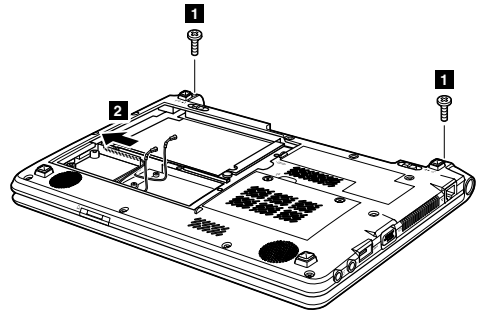
1080 LCD unit

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42

Figure 8. Removal steps of LCD unit

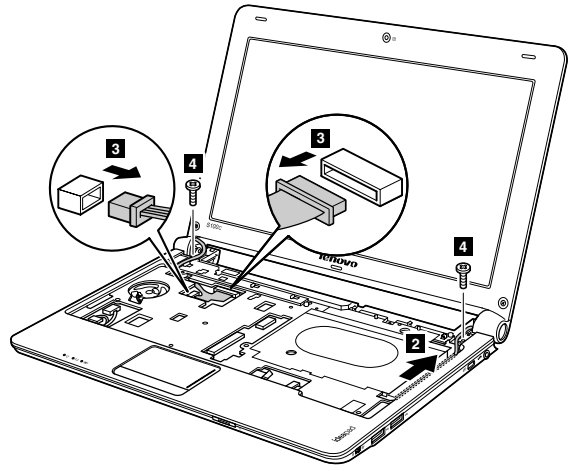
Remove two screws **1**, and release the antenna cables from the cable guides in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
1	M2.5 × 6.5 mm, flat-head, nylok-coated (2)	Black or Silver	2.85 kgfcm

Figure 8. Removal steps of LCD unit (continued)

Detach the LCD connectors in the direction shown by arrows **3**. Remove two screws **4**

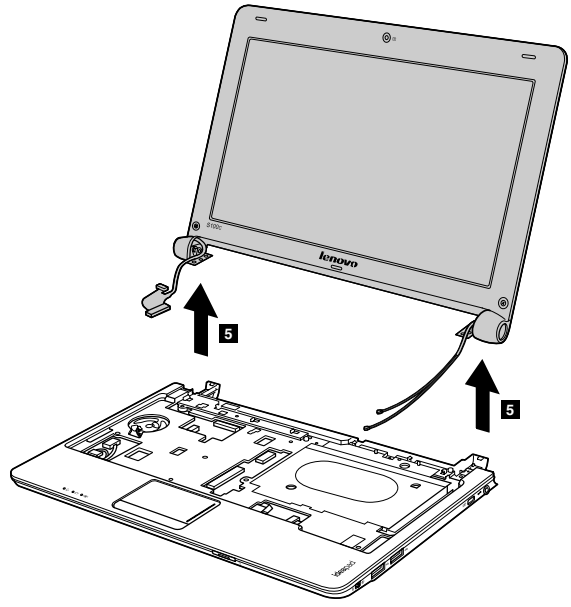


Step	Screw (quantity)	Color	Torque
4	M2.5 × 6.5 mm, flat-head, nylok-coated (2)	Black or Silver	2.85 kgfcm

When installing:

- Route the camera cable along the cable guides. As you route the cables, make sure that they are not subjected to any tension. Tension could cause the cables to be damaged by the cable guides, or a wire to be broken.
- Make sure that the LCD connectors are attached firmly and make sure that you do not pinch the camera cable when you attach the LCD assembly. Route the LCD cable along the cable guides.

Figure 8. Removal steps of LCD unit (continued)
Remove the LCD unit in the direction shown by arrows **5**.



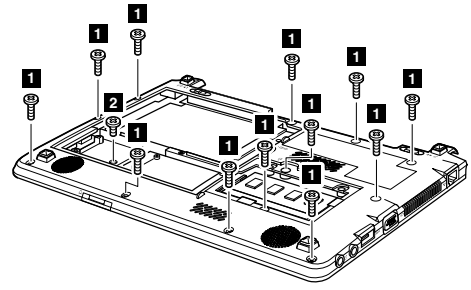
1090 Keyboard bezel, speakers and Bluetooth card

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1040 DIMM cover” on page 38
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45

Figure 9. Removal steps of Keyboard bezel, speakers and Bluetooth card

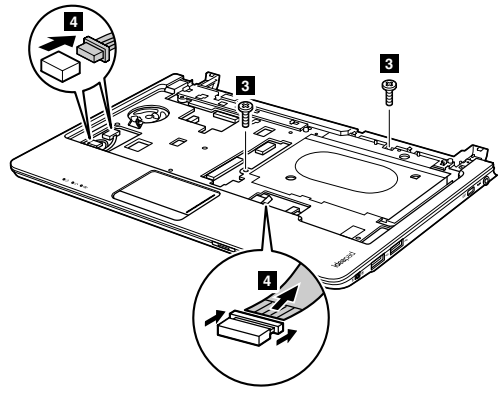
Remove twelve screws **1** and one screw **2** on the bottom.



Step	Screw (quantity)	Color	Torque
1	M2.5 × 6.5 mm, flat-head, nylok-coated (12)	Black or Silver	2.85 kgfcm
2	M2 × 4 mm, flat-head, nylok-coated (1)	Black or Silver	1.85 kgfcm

Figure 9. Removal steps of Keyboard bezel, speakers and Bluetooth card (continued)

Remove two screws **3**. Detach the speakers connector, the Bluetooth card connector and the touchpad connector in the direction shown by arrows **4**.



Step	Screw (quantity)	Color	Torque
3	M2.5 × 6.5 mm, flat-head, nylok-coated (2)	Black or Silver	2.85 kgfcm

When installing: Make sure that all the connectors are attached firmly.

Figure 9. Removal steps of Keyboard bezel, speakers and Bluetooth card (continued)

Remove the keyboard bezel in the direction shown by arrow **5**.

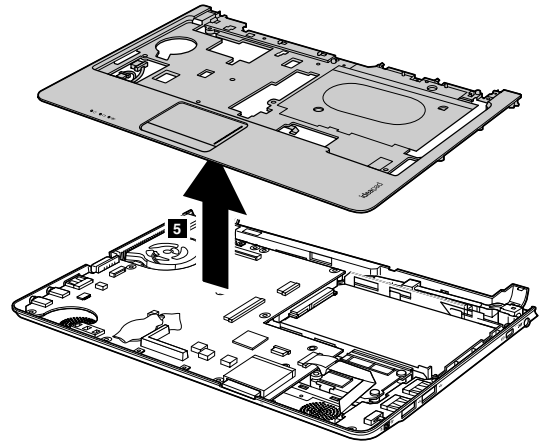
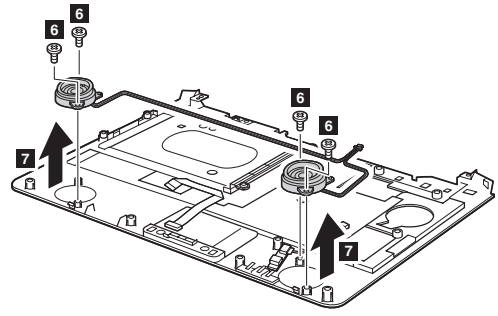


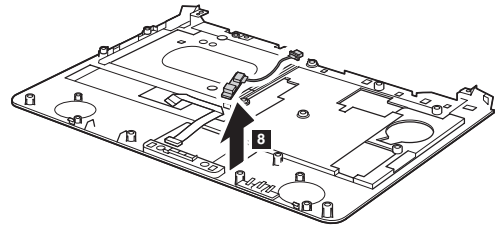
Figure 9. Removal steps of Keyboard bezel, speakers and Bluetooth card (continued)

Remove four screws **6**, release the speaker cables from the cable guides, and then remove the speakers **7**.



Step	Screw (quantity)	Color	Torque
6	M2 × 4 mm, flat-head, nylok-coated (4)	Black or Silver	1.85 kgfcm

Remove the Bluetooth card **8**.



1100 System board

Important notices for handling the system board:

When handling the system board, bear the following in mind.

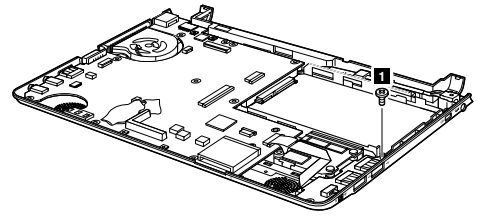
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- In the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded surface such as an ESD mat or conductive corrugated material.

For access, remove these FRUs in order:

- "1010 Battery pack" on page 34
- "1020 Dummy cards" on page 35
- "1030 Hard disk drive (HDD) slot cover and HDD" on page 36
- "1040 DIMM cover" on page 38
- "1050 DIMM" on page 39
- "1060 PCI Express Mini Card for wireless LAN/WAN" on page 40
- "1070 Keyboard cover, keyboard and LED board" on page 42
- "1080 LCD unit" on page 45
- "1090 Keyboard bezel, speakers and Bluetooth card" on page 48

Figure 10. Removal steps of system board

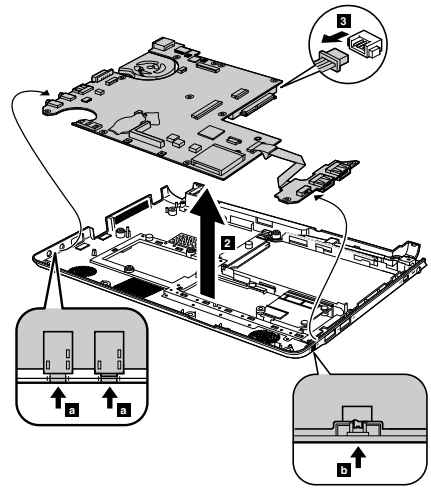
Remove one screw **1**.



Step	Screw (quantity)	Color	Torque
1	M2 × 4 mm, flat-head, nylok-coated (1)	Black or Silver	1.85 kgfcm

Figure 10. Removal steps of system board (continued)

Lift the system board in the direction shown by arrow **2**, unplug the power assembly connector **3**, and then Remove the system board.



When installing: When attaching the system board to the base cover, adjust the placement of the wireless radio switch as shown in **b**, and make sure that both of the audio jack and the microphone jack are attached to the holes on the base cover as shown in **a**. Improper placement of the switch or those jacks might cause a damage.

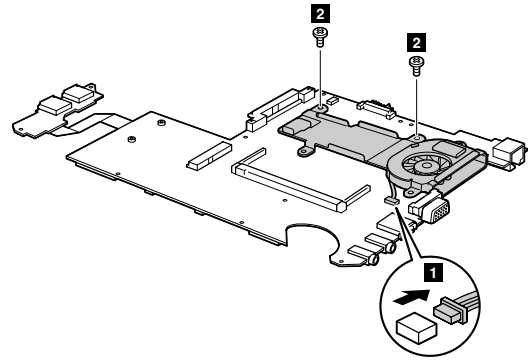
1110 Fan assembly and Heat Sink assembly

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1020 Dummy cards” on page 35
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1040 DIMM cover” on page 38
- “1050 DIMM” on page 39
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45
- “1090 Keyboard bezel, speakers and Bluetooth card” on page 48
- “1100 System board” on page 52

Figure 11. Removal steps of fan assembly and heat sink assembly

Unplug the connector in the direction shown by arrow **1**. Remove two screws **2**.

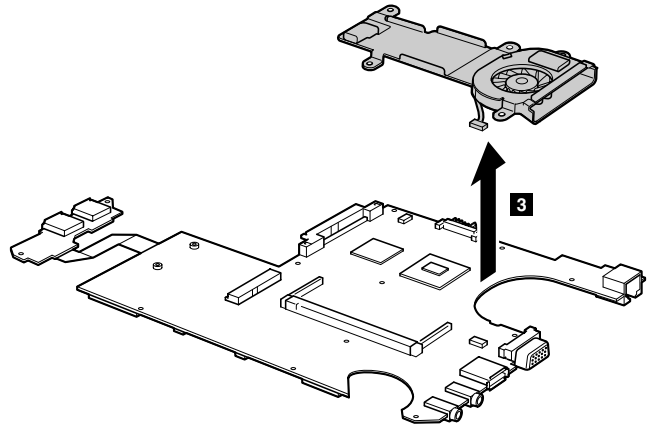


When installing: Make sure that the fan connector is attached firmly to the system board.

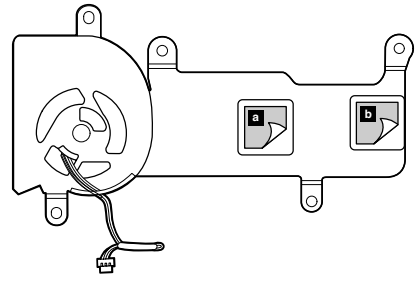
Step	Screw (quantity)	Color	Torque
2	M2 × 3.5 mm, flat-head, nylok-coated (2)	Black or Silver	1.85 kgfcm

Figure 11. Removal steps of fan assembly and heat sink assembly (continued)

Lift the fan assembly and heat sink assembly in the direction shown by arrow **3**. Be careful not to damage the connector.



Attention: Do not handle the heat sink assembly roughly. Improper handling can cause distortion or deformation and imperfect contact with components.



When installing:

- Before you attach the fan assembly to the computer, apply thermal grease, at an amount of 0.2 grams, to the **a** part shown in the figure above. Either too much or too less grease application can cause a thermal problem due to imperfect contact with a component. You also need to peel the thin film off from the rubber **b** .

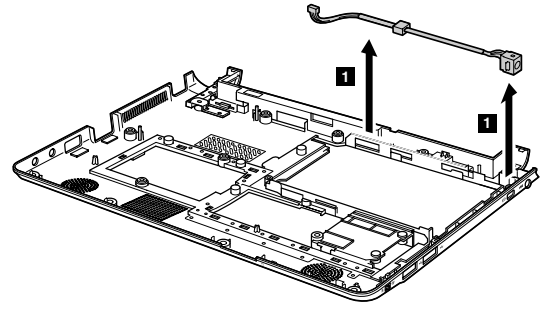
1120 Base cover

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1020 Dummy cards” on page 35
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1040 DIMM cover” on page 38
- “1050 DIMM” on page 39
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45
- “1090 Keyboard bezel, speakers and Bluetooth card” on page 48
- “1100 System board” on page 52

Figure 12. Removal steps of base cover

Remove the power assembly in the direction shown by arrows **1**.



When installing: Make sure that the power connector is attached firmly.

Note: Applying labels to the base cover

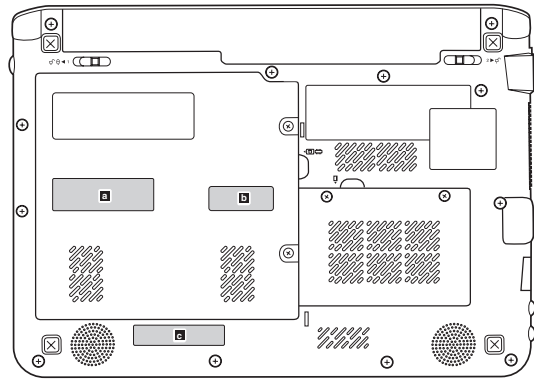
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following label:

The following labels need to be peeled off from the old base cover, and need to be put on the new base cover.

a Indonesia Label
b WLAN Label
c BT Label

For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

For the location of each label, refer to the following figure:



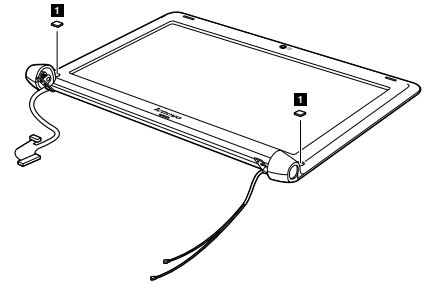
1130 LCD front bezel

For access, remove these FRUs in order:

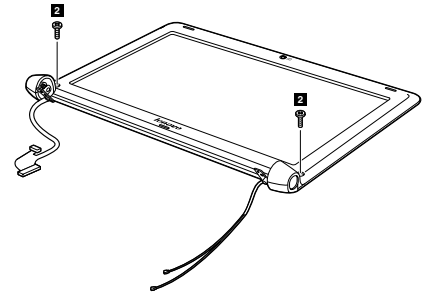
- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45

Figure 13. Removal steps of LCD front bezel

Remove two pads **1**.

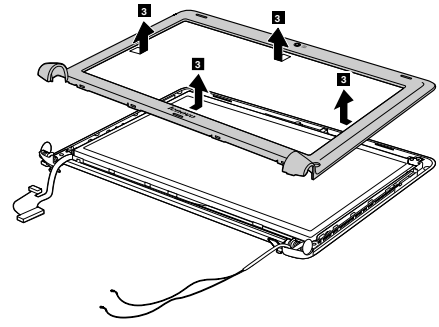


Remove two screws **2**.



Step	Screw (quantity)	Color	Torque
2	M2 × 5 mm, flat-head, nylok-coated (2)	Black or Silver	1.85 kgfcm

Remove the LCD front bezel in the direction shown by arrows **3**.



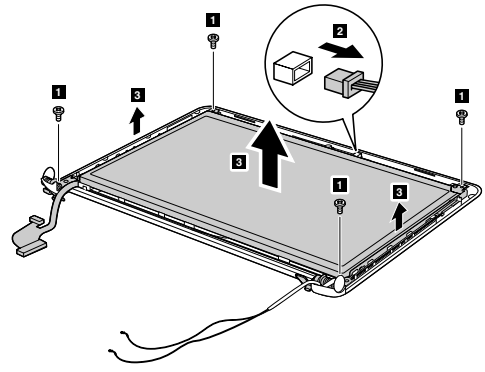
1140 LCD panel, LCD cable and hinges

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45
- “1130 LCD front bezel” on page 59

Figure 14. Removal steps of LCD panel, LCD cable and hinges

Remove four screws **1**. Detach the integrated camera connector **2**. Remove the LCD panel in the direction shown by arrows **3**.

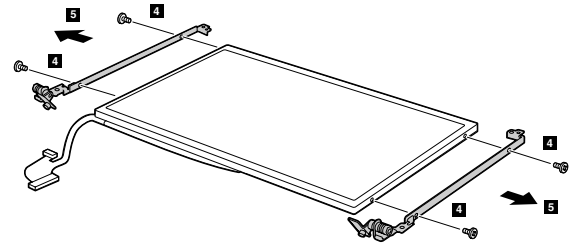


When installing: Make sure that the connector is attached firmly.

Step	Screw (quantity)	Color	Torque
1	M2 × 3.5 mm, flat-head, nylok-coated (4)	Black or Silver	1.85 kgfcm

Figure 14. Removal steps of LCD panel, LCD cable and hinges (continued)

Remove four screws **4**. Release the hinges in the direction shown by arrows **5**.

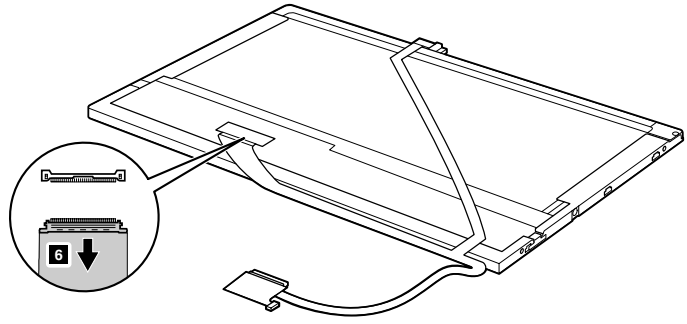


Step	Screw (quantity)	Color	Torque
4	M2 × 3.5 mm, flat-head, nylok-coated (4)	Black or Silver	1.85 kgfcm

Figure 14. Removal steps of LCD panel, LCD cable and hinges (continued)

Note: The LCD cables are attached to the LCD panel by a metal connector.

Peel off the adhesive tape and detach the metal connector in the direction shown by arrow **6**.



When installing: Make sure that the metal connector is attached firmly.

1150 Integrated camera

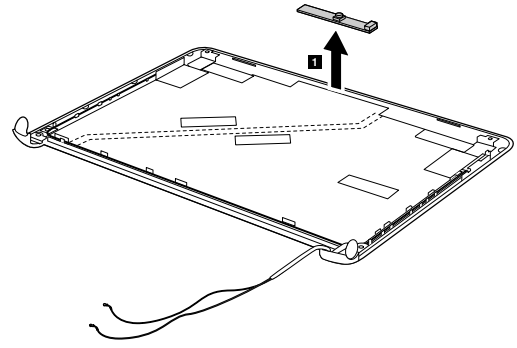
For access, remove these FRUs in order:

- "1010 Battery pack" on page 34
- "1030 Hard disk drive (HDD) slot cover and HDD" on page 36
- "1060 PCI Express Mini Card for wireless LAN/WAN" on page 40
- "1070 Keyboard cover, keyboard and LED board" on page 42
- "1080 LCD unit" on page 45
- "1130 LCD front bezel" on page 59
- "1140 LCD panel, LCD cable and hinges" on page 60

Figure 15. Removal steps of integrated camera

Note: The integrated camera is stuck on the top center of the LCD cover.

Remove the integrated camera from the LCD cover **1**.



When installing: Stick the integrated camera to the top center of the LCD cover and ajust the placement of it to make sure the connector is attached firmly.

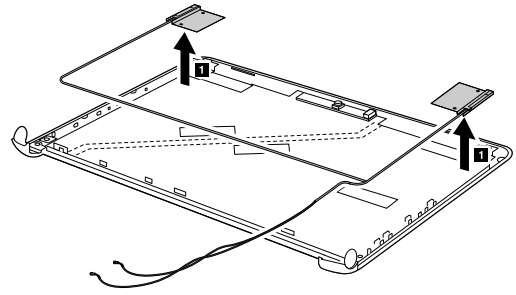
1160 Antenna assembly and LCD cover

For access, remove these FRUs in order:

- “1010 Battery pack” on page 34
- “1030 Hard disk drive (HDD) slot cover and HDD” on page 36
- “1060 PCI Express Mini Card for wireless LAN/WAN” on page 40
- “1070 Keyboard cover, keyboard and LED board” on page 42
- “1080 LCD unit” on page 45
- “1130 LCD front bezel” on page 59
- “1140 LCD panel, LCD cable and hinges” on page 60

Figure 16. Removal steps of antenna assembly and LCD cover

Peel off the adhesive tapes securing the antenna boards, release the cables from the cable guide, and then remove the antenna assembly in the direction shown by arrows **1**.



When installing: Route the antenna cables along the cable guides and secure the antenna boards with adhesive tapes. As you route the cables, make sure that they are not subjected to any tension. Tension could cause the cables to be damaged by the cable guides, or a wire to be broken.

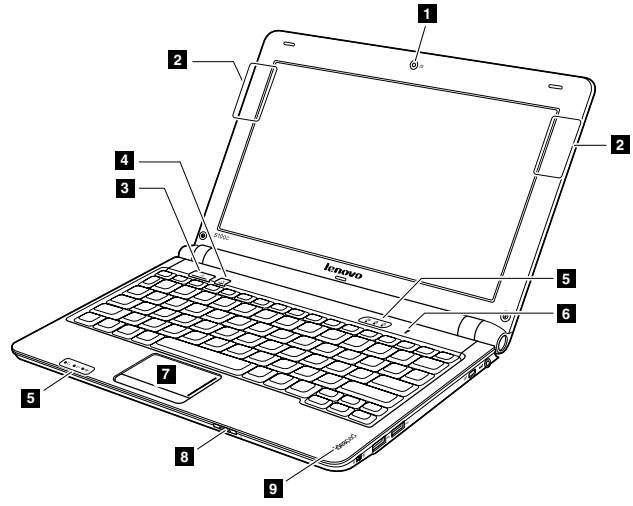
Locations

Front view

1 Integrated camera
2 Wireless module antennas
3 Power button
4 OneKey Rescue system button
5 System status indicators

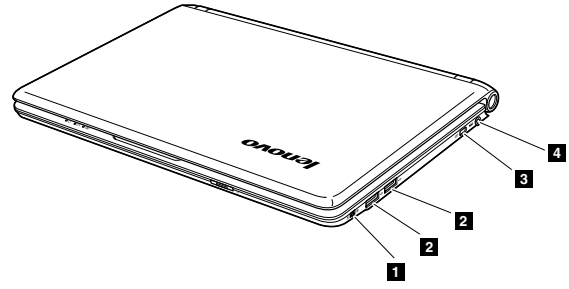
Note: For the description of each indicator, see “Status indicators” on page 29.

6 Built-in microphone
7 Touchpad
8 Memory card slot
9 IdeaPad lighting logo



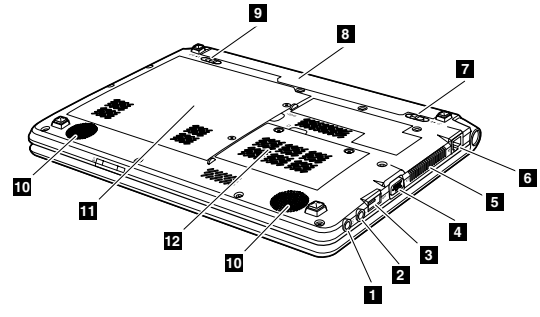
Right-side view

1 Integrated wireless device switch (on select models)
2 USB port
3 Kensington slot
4 AC power adapter jack



Bottom and Left-side view

1 Headphone jack
2 Microphone jack
3 USB port
4 VGA port
5 Fan louvers
6 RJ-45 port
7 Battery latch - spring loaded
8 Battery pack
9 Battery latch - manual
10 Speakers
11 Mini PCI Express Card slot/hard disk drive (HDD) compartment
12 Memory compartment



Parts list

This section presents the following service parts:

- "Overall" on page 68
- "LCD FRUs" on page 72
- "Keyboard" on page 74
- "Miscellaneous parts" on page 78
- "AC adapters" on page 79
- "Power cords" on page 80

Notes:

- Each FRU is available for all types or models, unless specific types or models are specified.

Overall

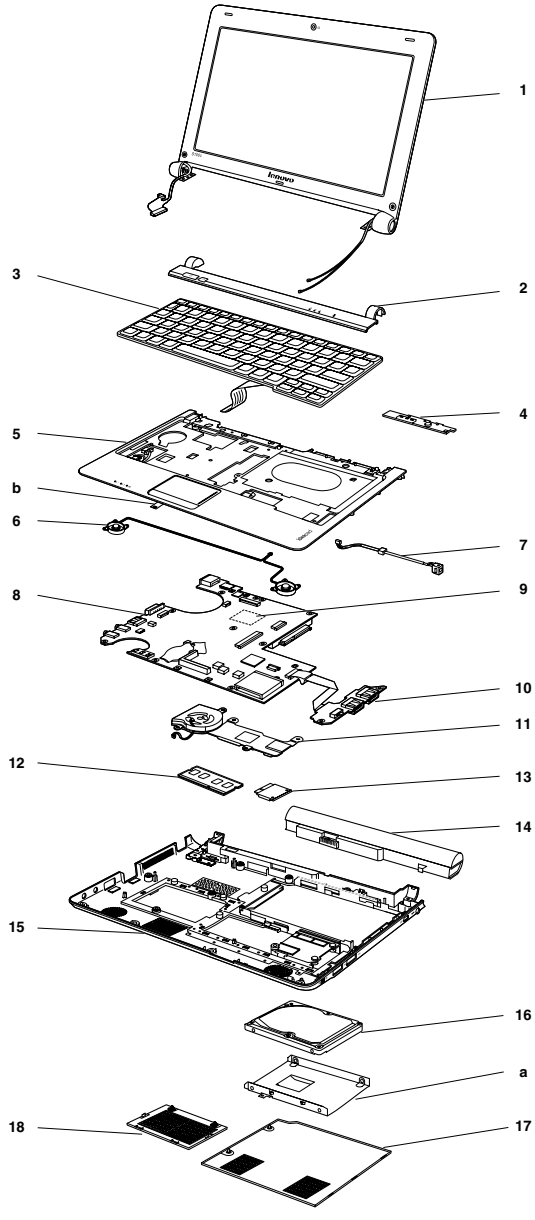


Table 5. Parts list—Overall

No.	FRU	FRU no.
a-c	See “Miscellaneous parts” on page 78.	
1	LCD unit (see “LCD FRUs” on page 72.)	
2	S10-3C KEYBOARD Cover White	31046476
2	S10-2C KEYBOARD Cover Black	31046474
3	Keyboard (see “Keyboard” on page 74.)	
4	S100C LED Board	90000473
5	S10-3c LOGIC UPPER W/TP-white	31044940
5	S10-2C LOGIC UPPER W/TP-black	31042148
6	S10-2C SPEAKER HJ162016G0LFE	31042152
7	S10-2C DC IN CABLE R3090344Y0LFE	31047632
8	S100C MB W/WIFI/BT	90000474
9	CPU assembly, Intel® Atom™ Pineview N455 1.66G A-0 BGA processor (DDR3)	102000837
10	S100C USB Board	90000475
11	S10-3C THERMAL MODUL	31044936
12	DDR3 1600 2GB, Samsung, M471B5773DH0-CK0 DDR3 1600 2GB	11200340
12	DDR3 1600 2GB, Hynix, HMT325S6CFR8C-PB DDR3 1600 2GB	11200343
12	DDR3 1600 2GB, Micron, MT8KTF25664HZ-1G6M1 DDR3 1600 2GB	11200346
12	DDR3 1600 2GB, Ramaxel, RMT3150ED58E8W-1600 DDR3 1600 2GB	11200392
12	DDR3 1600 2GB, Sharetronic(Micron), SM321NH08IAF DDR3 1600 2GB	11200396
12	DDR3 1333 2GB, Samsung, M471B5773DH0-CH9 DDR3 1333 2GB	11012808
12	DDR3 1333 2GB, Hynix, HMT325S6CFR8C-H9 DDR3 1333 2GB	11200226
12	DDR3 1333 2GB, Ramaxel (Elpida), RMT3010EC58E8F-1333 DDR3 1333 2GB	11200060
13	S100C Wlan Card W/BT	90000472
14	Battery, 3 cell 24wh, Celxpert/SDI 2.2Ah 3cell white	121000965
14	Battery, 3 cell 24wh, Celxpert/SDI 2.2Ah 3cell Black	121000956
14	Battery, 3 cell 24wh, Simplo/SDI 2.2Ah 3cell white	121001046
14	Battery, 3 cell 24wh, Simplo/SDI 2.2Ah 3cell Black	121001047
14	Battery, 6 cell 48wh, S10-2 Simplo 48Wh 3S2P white Li-ion Battery	121000827
14	Battery, 6 cell 48wh, S10-2 Simplo 48Wh 3S2P Li-ion Battery	121000825
14	Battery, 6 cell 48wh, S10-2 Celxpert/LG 48Wh 3S2P white Li-ion Battery	121000822
14	Battery, 6 cell 48wh, S10-2 Celxpert/LG 48Wh 3S2P Li-ion Battery	121000824
14	Battery, 6 cell 48wh, S10-2 Celxpert/SDI 48Wh 3S2P white Li-ion Battery	121000823

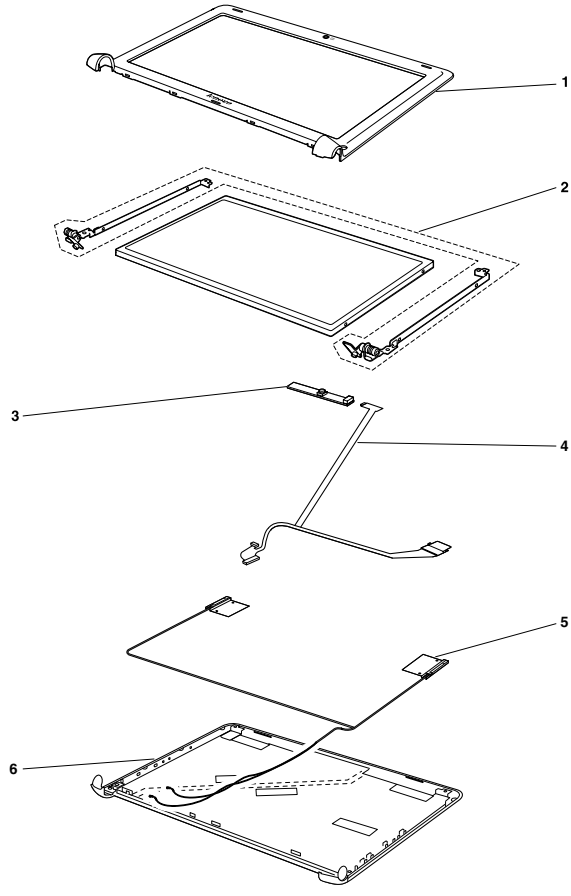
Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.
14	Battery, 6 cell 48wh, S10-2 Celxpert/SDI 48Wh 3S2P Li-ion Battery	121000832
15	S10-3c LOGIC LOWER-white	31044941
15	S10-2C LOGIC LOWER-black	31042149
16	HDD, 320GB, 5400rpm, WD WD3200BPVT ML320S-AF2	16200022
16	HDD, 320GB, 5400rpm, Toshiba Capricorn BS 9.5mm	16004642
16	HDD, 500GB, 5400rpm, WD ML500M 9.5mm	16200089
16	HDD, 500GB, 5400rpm, WD WD5000BPVT-24HXZT 9.5mm	16004846
16	HDD, 500GB, 5400rpm, Toshiba Capricorn BS 9.5mm	16004643
16	HDD, 500GB, 5400rpm, Seagate Waytt 9.5mm	16004189
16	HDD, 500GB, 5400rpm, Seagate M8 9.5mm	16200210
17	S10-3C HDD Cover-white	31044942
17	S10-2C HDD Cover-black	31044541
18	S10-2/3C RAM cover-white R2802S10J0LFE	31047142
18	S10-2/3C RAM cover-black R2802A10L0LFE	31047145
—	AC adapter (see “AC adapters” on page 79.)	

LCD FRUs

In Lenovo IdeaPad S100c, there are following types of LCDs.

- “10.1-in. WXGA TFT”



10.1-in. WXGA TFT

Table 6. Parts list—10.1-in. WXGA TFT

No.	FRU	FRU no.
1	S100C LCD Bezel-Black	90201184
1	S100C LCD Bezel-White	90201185
2	S10-2C Left LCD BRACKET W/HINGE	31042150
2	S10-2C Right LCD BRACKET W/HINGE	31042151
3	S10-2C 30W camera LR030001R1LFE	31042143
4	S10-2C LVDS CABLE	31042153
5	S10-2C WLan Antenna	31042156
6	S10-2C LCD COVER-BLACK	31042145
6	S10-3c LCD COVER-white	31044938

Keyboard

Table 7. Parts list—Keyboard

Language			P/N
Keyboard (black)	Chicony	US International	25008466
		Arabic English	25008464
		T-Chinese	25008462
		Russian	25008441
		Thailand	25008444
		United Kingdom	25008461
		German	25008459
		Canadian/French	25008457
		French	25008454
		La-Spanish	25008452
		Turkish	25008450
		Brazilian	25008448
		Swedish	25008846
		Netherlands	25008870
		Greek	25008868
		Korean	25008866
		Hebrew	25008864
		Denmark	25008861
		Italian	25008859
		Hungary	25008852
		Norwegian	25008850
		Czech	25008848
		Japan	25008906
		Belgium	25008998
		Spanish	25008993
		Switzerland	25008988
		Slovak	25009110
		Portuguese	25009112
		US International	25009107
		Icelandic	25009103
		Slovenian	25009099
		Canadian Bilingual (En+Fr)	25009233
		Nordic	25009508
		Bulgarian	25009507
	Sunrex	US International	25008896
		Arabic English	25008899
		T-Chinese	25008902
		Russian	25008905
		Thailand	25008909
		United Kingdom	25008913
		German	25008931
		Canadian/French	25008933
		French	25008937
		La-Spanish	25008939

Table 7. Parts list—Keyboard (continued)

Language			P/N
Keyboard (black) (continued)	Sunrex (continued)	Turkish	25008942
		Brazilian	25008946
		Swedish	25008945
		Netherlands	25008943
		Greek	25008936
		Korean	25008912
		Hebrew	25008928
		Denmark	25008926
		Italian	25008923
		Hungary	25008920
		Norwegian	25008971
		Czech	25008911
		Japan	25008901
		Belgium	25008997
		Spanish	25008992
		Switzerland	25008987
		Slovak	25009115
		Portuguese	25009111
		US International	25009106
		Icelandic	25009102
		Slovenian	25009098
		Canadian Bilingual (En+Fr)	25009235
		Nordic	25009506
		Bulgarian	25009503
Keyboard (white)	Chicony	US International	25008465
		Arabic English	25008463
		T-Chinese	25008440
		Russian	25008442
		Thailand	25008446
		United Kingdom	25008460
		German	25008458
		Canadian/French	25008456
		French	25008453
		La-Spanish	25008451
		Turkish	25008449
		Brazilian	25008447
		Swedish	25008871
		Netherlands	25008869
		Greek	25008867
		Korean	25008865
		Hebrew	25008862
		Denmark	25008860
		Italian	25008858
		Hungary	25008851
		Norwegian	25008849
		Czech	25008847

Table 7. Parts list—Keyboard (continued)

Language			P/N
Keyboard (white) (continued)	Chicony (continued)	Japan	25008897
		Belgium	25008996
		Spanish	25008991
		Switzerland	25008986
		Slovak	25009114
		Portuguese	25009109
		US International	25009105
		Icelandic	25009101
		Slovenian	25009097
		Canadian Bilingual (En+Fr)	25009234
		Nordic	25009505
		Bulgarian	25009502
		Turkmenistan	25201323
	Sunrex	US International	25008898
		Arabic English	25008900
		T-Chinese	25008903
		Russian	25008907
		Thailand	25008910
		United Kingdom	25008930
		German	25008932
		Canadian/French	25008935
		French	25008938
		La-Spanish	25008941
		Turkish	25008944
		Brazilian	25008948
		Swedish	25008947
		Netherlands	25008940
		Greek	25008934
		Korean	25008929
		Hebrew	25008927
		Denmark	25008925
		Italian	25008922
		Hungary	25008919
		Norwegian	25008914
		Czech	25008908
		Japan	25008904
		Belgium	25008994
		Spanish	25008990
		Switzerland	25008985
		Slovak	25009113
		Portuguese	25009108
		US International	25009104
		Icelandic	25009100

Table 7. Parts list—Keyboard (continued)

Language			P/N
Keyboard (white) (continued)	Sunrex (continued)	Slovenian	25009096
		Canadian Bilingual (En+Fr)	25009232
		US Internationl (for 3D print KB)	25009227
		Nordic	25009504
		Bulgarian	25009501
		Turkmenistan	25201325

Miscellaneous parts

Table 8. Parts list—Miscellaneous parts

FRU	P/N
System miscellaneous parts: • (*a*) S10-2C HDD Bracket A10-05 R3683A10F0LFE	31046553
Cable miscellaneous parts: • (*b*) S10-2C Touch pad CABLE **Note:** Italicized letters in parentheses are references to the exploded view in “Overall” on page 68.	31042155

AC adapters

Table 9. Parts list—3-pin AC adapters

FRU	P/N
30W 20V 1.5A, Litons PA-1300-12LC white adapter	36001808
30W 20V 1.5A, Litons PA-1300-12LC black adapter	36001809
30W 20V 1.5A, Chicony CPA09-A 030 white adapter	36001802
30W 20V 1.5A, Chicony CPA09-A 030 black adapter	36001804

Power cords

A Lenovo IdeaPad power cord for a specific country or region is usually available only in that country or region:

Table 10. Parts list—3-pin power cords

Region	P/N
CCC • LINETEK PC323+RVV300/300+LS15 1m	145000600
Argentina • LINETEK LS15+H03VV-F+LP39 1m	145000599
Danmark • LINETEK LS15+H03VV-F+LP-38 1m	145000598
Switzerland • LINETEK LS15+H03VV-F+LP-37 1m	145000597
Brazil • LINETEK LS15 H03VV-F LP26A 1m	145000596
Israel • LINETEK LS15+H03VV-F+LP-41 1m	145000595
UL • LINETEK LP-30B + SPT-2 + LS15 1m	145000594
UK • LINETEK LP-61L+ H03VV-F+ LS15 1m	145000593
Indian • LINETEK PE-361+ H05VV-F+ LS15 1m	145000592
Italy • LINETEK LS15+H03VV-F+PE-336 1m	145000591
Korea • LINETEK LS15+H05VV-F+LP-E04A 1m	145000590
Australia • LINETEK LS15+H03VV-F+LP-23A 1m	145000589
Taiwan • LINETEK LS15+VCTF+LP-53 1m	145000588
Japan • LINETEK LS15+VCTF+LP-54 1m	145000587
Africa • LINETEK LS15+H03VV-F+PE-364 1m	145000586
CE • LINETEK LP-34+H03VV-F + LS15 1m	145000585
Argentina • LINETEK LS15+H03VV-F+LP39 1m white	145000584
Danmark • LINETEK LS15+H03VV-F+LP-38 1m white	145000583
Switzerland • LINETEK LS15+H03VV-F+LP-37 1m white	145000582

Table 10. Parts list—3-pin power cords (continued)

Region	P/N
Brazil • LINETEK LS15 H03VV-F LP26A 1m white	145000581
Israel • LINETEK LS15+H03VV-F+LP-41 1m white	145000580
CCC • LINETEK PC323+RVV300/300+LS15 1m white	145000579
UL • LINETEK LS15+SPT-2+LP-30B 1m white	145000578
UK • LINETEK LS15+H03VV-F3+LP-61L 1m white	145000577
Indian • LINETEK LS15+H05VV-F3*0.75+PE-361 1m white	145000576
Italy • LINETEK LS15+H03VV-F+PE-336 1m white	145000575
Korea • LINETEK LS15+H05VV-F+LP-E04A 1m white	145000574
Australia • LINETEK LS15+H03VV-F+LP-23A 1m white	145000573
Taiwan • LINETEK LS15+VCTF+LP-53 1m white	145000572
Japan • LINETEK LS15+VCTF+LP-54 1m white	145000571
Africa • LINETEK LS15+H03VV-F+PE-364 1m white	145000570
CE • LINETEK LS15+H03VV-F+LP-34 1m white	145000569
CCC • Longwell LSG-31+RVV300/300+LS-18 1m	145000568
Argentina • Longwell LP-24+H03VV-F+LS-18 1m	145000567
Danmark • Longwell LP-40+H03VV-F+LS-18 1m	145000566
Switzerland • Longwell LP-37+H03VV-F+LS-18 1m	145000565
Brazil • Longwell LP-46+H03VV-F+LS-18 1m	145000564
Israel • Longwell LP-41+H03VV-F+LS-18 1m	145000563
UL • Longwell LP-30B+SPT-2 18AWG+LS-18 1m	145000562
UK • Longwell LP-61L+H03VV-F+LS-18 1m	145000561
Indian • Longwell LP-67+BIS+LS-18 1m	145000560
Italy • Longwell LP-22+H03VV-F+LS-18 1m	145000559

Table 10. Parts list—3-pin power cords (continued)

Region	P/N
Korea • Longwell LP-486+KTLH03VV-F+LS-5 1m	145000558
Australia • Longwell LP-23A+LFC-3R+LS-18 1m	145000557
Taiwan • Longwell LP-71+VCTF+LS-33 1m	145000556
Japan • Longwell LP-54+VCTF+LS-18 1m	145000555
Africa • Longwell LP-39+H03VV-F+LS-18 1m	145000554
CE • Longwell LP-34A+H03VV-F+LS-18 1m	145000553
CCC • Longwell LSG-31+RVV300/300+LS-18 1m white	145000552
Argentina • Longwell LP-24+H03VV-F+LS-18 1m white	145000551
Danmark • Longwell LP-40+H03VV-F+LS-18 1m white	145000550
Switzerland • Longwell LP-37+H03VV-F+LS-18 1m white	145000549
Brazil • Longwell LP-46+H03VV-F+LS-18 1m white	145000548
Israel • Longwell LP-41+H03VV-F+LS-18 1m white	145000547
UL • Longwell LP-30B+SPT-2 18AWG+LS-18 1m white	145000546
UK • Longwell LP-61L+H03VV-F+LS-18 1m white	145000545
Indian • Longwell LP-67+BIS+LS-18 1m white	145000544
Italy • Longwell LP-22+H03VV-F+LS-18 1m white	145000604
Korea • Longwell LP-486+KTLH03VV-F+LS-5 1m white	145000603
Australia • Longwell LP-23A+LFC-3R+LS-18 1m white	145000543
Taiwan • Longwell LP-71+VCTF+LS-33 1m white	145000542
Japan • Longwell LP-54+VCTF+LS-18 1m white	145000541
Africa • Longwell LP-39+H03VV-F+LS-18 1m white	145000540
CE • Longwell LP-34A+H03VV-F+LS-18 1m white	145000539

Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

Lenovo may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents.

LENOVO GROUP LTD. PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. Lenovo may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

The products described in this document are not intended for use in implantation or other life support applications where malfunction may result in injury or death to persons. The information contained in this document does not affect or change Lenovo product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of Lenovo or third parties. All information contained in this document was obtained in specific environments and is presented as an illustration. The result obtained in other operating environments may vary.

Lenovo may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Any references in this publication to non-Lenovo Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this Lenovo product, and use of those Web sites is at your own risk.

Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Trademarks

The following terms are either registered trademarks or trademarks of Lenovo in the United States and/or other countries:

Lenovo®
Lenovo logo®
IdeaPad®
VeriFace®
OneKey Rescue®(OneKey Recovery, OneKey Antivirus)
APS®
Power Express®
Energy Management and ReadyComm®

The following terms are trademarks of Microsoft Corporation in the United States, other countries, or both:

Windows®
Windows Vista®
Windows® 7

The following are trademarks of Intel Corporation or its subsidiaries in the United States, other countries, or both:

Intel®
Intel® Core™ 2 Duo

Other company, product, or service names may be the trademarks or service marks of others.