

lenovo

Lenovo
Ideapad 100 15IBD

Hardware
Maintenance
Manual



Note:

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 75.

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About this manual

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

Lenovo Ideapad 100 15IBD

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 products. Use this manual to troubleshoot problems effectively. Before servicing a Lenovo 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 a Lenovo 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 the following rules 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.
- Please remove covers and other parts in a safe place, away from all personnel, while you are servicing the machine.
- Keep your tool case away from walk areas so that other people will not trip 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 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.

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- 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 generatorsand similar units. (This practice ensures correct grounding of the units.)
- If an electrical accident occurs:
 - Use caution: do not become a victim yourself.
 - Switch off 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 due to attachment of non-Lenovo 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 alterations. Use good judgment as to the safety of any non-Lenovo 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.

Notes:

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 altre 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 למפרק סוללת המתנה, לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לטפל את הסוללה כנדרש 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
וקדמיים. אין לפרק את מארז הסוללה, להשליך
אותו לאש או למים או לקצר אותו. יש לשלוק את
מארז הסוללה כנדרש על ידי התקנות
המקומיות המקומיות. 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 température 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 Systematterie ist eine Lithiumatterie. 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, לשלק את המחבר המקוטב שלה, לפרק אותה או לחמם אותה לטמפרטורה העולה על 100 מעלות צלזיוס. יש לשרוף את הסוללה כנדרש לחשף את תוכן התא למים. יש לשלק 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 è una batteria al litio e può 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、その極性コネクタの取り外し、バッテリー本体の分解、100℃(212°F)以上の加熱、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 הנוגיש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע עם עיניכם או ידיכם, שטפו את האזורים הנוגשים 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 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 הכרטיס 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 מספיק 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 מהשקע, להוציא
את סוללת 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 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 kontrol, 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，请勿直视激光束，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 neľadte priamo s optickými nástrojmi do lúča a vyhnite sa priamemu vystaveniu lúčov.

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 the 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 disk 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

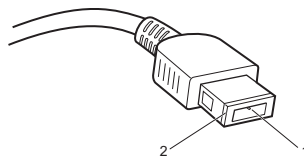
Checking the AC adapter

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” on page 21.

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 persists, go to “Lenovo Ideapad 100 15IBD” on page 26.

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.

Related service information

This chapter presents the following information:

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

Restoring the factory contents by using Recovery Disc Set

Restore of factory default

This topic provides information about the recovery programs that are available for you to recover the computer settings.

- Windows 7: The following recovery programs are available on computers with a Windows 7 operating system:
 - OneKey Recovery Pro

The OneKey Recovery Pro program enables you to back up all your hard disk drive contents, including the operating system, data files, software programs, and personal settings. You can designate where the OneKey Recovery Pro program stores the backup. After you have backed up the contents on the hard disk drive, you can restore the complete contents of the hard disk drive, restore only the desired files, or restore only the Windows operating system and applications.

- Product Recovery

The Product Recovery program enables you to restore the computer settings to the factory default settings through recovery media.

Attention: When you use the Product Recovery program to restore the computer settings, all the data you have stored on the hard disk drive will be deleted and the computer settings will be restored to the factory default settings. During the restoring process, you will be given the option to save one or more files currently on the hard disk drive to other media before the data is deleted.

- Windows 8: The preinstalled Windows recovery program enables you to do the following:
 - Refresh the computer without losing personal files
 - Restore the computer to the factory default settings

Attention: When you use the Windows recovery program to restore the computer settings, all the data you have stored on the hard disk drive will be deleted and the computer will be restored to the factory default settings. To avoid data loss, back up your data in advance.

- Configure the advanced startup options

The advanced startup options enable you to do the following:

- Change the startup settings of the Windows operating system
- Restore the Windows operating system from a system image
- Change the startup settings of the Windows operating system

For more information about the recovery solutions, refer to the help information system of the programs.

Passwords

As many as three passwords may be needed for any Lenovo computer: the power-on password (POP), the hard disk password (HDP), and the supervisor password (SVP).

If any of these passwords has been set, a prompt for it appears on the screen whenever the computer is turned on. The computer does not start until the password is entered.

Exception: If only an SVP is installed, the password prompt does not appear when the operating system is booted.

Power-on password

A power-on password (POP) protects the system from being powered on by an unauthorized person. The password must be entered before an operating system can be booted.

Hard-disk password

There are two hard-disk passwords (HDPs):

+ User HDP - for the user

+ Master HDP - for the system administrator, who can use it to get access to the hard disk drive even if the user has changed the user HDP

Attention: If the user HDP has been forgotten, check whether a master HDP has been set. If it has, it can be used for access to the hard disk drive. If no master HDP is available, neither Lenovo nor Lenovo authorized service technicians provide any services to reset either the user or the master HDP, or to recover data from the hard disk drive. The hard disk drive can be replaced for a scheduled fee.

Supervisor password

A supervisor password (SVP) protects the system information stored in the BIOS Setup Utility. The user must enter the SVP in order to get access to the BIOS Setup Utility and change the system configuration.

Attention: If the SVP has been forgotten and cannot be made available to the servicer, there is no service procedure to reset the password. The system board must be replaced for a scheduled fee.

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.

Screen blank state

If the time set on the “Turn off monitor” timer in the operating system expires, the LCD backlight turns off. You can also turn off the LCD backlight by pressing F9 .

To end screen blank state and resume normal operation, press F9 .

Lenovo Ideapad 100 15IBD

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

- “Specifications” on page 26
- “Status indicators” on page 28
- “FRU replacement notices” on page 30
- “Removing and replacing an FRU” on page 31
- “Locations” on page 57
- “Parts list” on page 60

Specifications

The following table lists the specifications of the Lenovo Ideapad 100 15IBD:

Table 1. Specifications

Feature	Description
Processor	See the system properties of your computer, you can do this as follows: Click Control Panel , then click Hardware and Sound , click Device Manager under Devices and Printers and double click Processors .
Core Chipset	NA
Graphic Chipset	nvidia N16V-GM
Display	• 15.6", 1,366 × 768 pixels HD • 15.6", 1,920 × 1,080 pixels
Standard memory	• DDR3L-1333 MHz/1600 MHz • 8 GB • SODIMM × 2
Hard disk drive	• 2.5-inch, 9.5 mm (7mm compatible)
Optical drive	Internal, 9.0mm&Dummy ODD

Table 1. Specifications (continued)

Feature	Description
I/O ports	• Combo audio jack × 1 • RJ45 × 1 • HDMI port × 1 • USB 2.0 × 1, USB 3.0 × 1 • 4 in 1 slot × 1 (SD, SDHC, SDXC, MMC)
Audio	• Combo audio jack × 1 • Speaker × 1 • Built-in microphone × 1 (on select models)
Video	HDMI port × 1
WLAN	Non-Intel Wifi 1x1 bgn, mini-PCIE
WWAN	NA
Bluetooth	Option
Keyboard	6-row Lenovo Keyboard
Touch pad	One piece touch pad
Integrated camera	640 × 480 pixels
Battery	Li-Cylinder
AC adapter	• 45W, 20V for integrated graphic model • 65W, 20V for discrete graphic model
Pre-installed operating system	• Win 10 64bits • Free-DOS

Status indicators

The system status indicators below show the computer status:

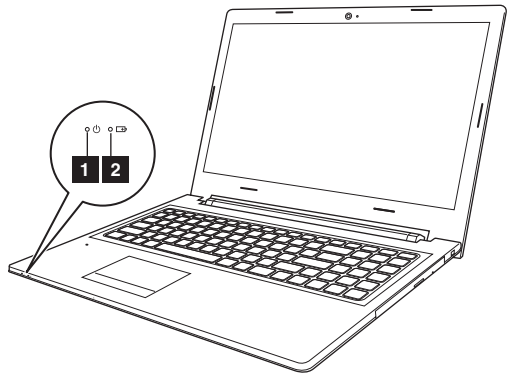


Table 2. Status indicators

Indicator	Indicator status	Meaning
Battery status indicator	On (solid white)	The battery has more than 20% charge.
	Solid amber	The battery has between 5% and 20% charge.
	Fast blinking amber	The battery has less than 5% charge.
	Slow blinking amber	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
	Slow blinking white	The battery has between 20% and 80% charge and is still charging. When the battery reaches 80% charge the light will stop blinking, but charging will continue until the battery is fully charged.
Power status indicator	On (solid white)	The computer is powered on.
	Blinking	The computer is in sleep mode.
	Off	The computer is powered off.

Hotkeys

The hotkeys are located in the function key row of the keyboard. By pressing the appropriate hotkey, you can change system settings instantly.

The following describes the function of each hotkey.

Table 3. Hotkeys

 F1	: Mutes/unmutes the sound.	 F7	: Enables/disables Airplane mode.
 F2	: Decreases the volume level.	 F8	: Displays all currently active apps.
 F3	: Increases the volume level.	 F9	: Turns on/off the backlight of the LCD screen.
 F4	: Closes the currently active window.	 F10	: Toggles the display between the computer and an external device.
 F5	: Refreshes the desktop or the currently active window.	 F11	: Decreases display brightness.
 F6	: Enables/disables the touchpad.	 F12	: Increases display brightness.

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 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.

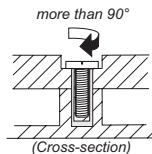
Do the following when you service this machine:

- Keep the screw kit in your tool bag.
- Remove screws carefully for reuse.
- Use a torque screwdriver if you have one.

Tighten screws as follows:

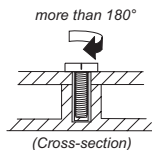
- **Plastic to plastic**

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 30.
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 57.
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.

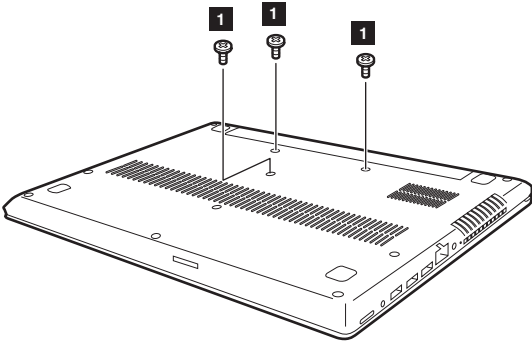
Attention: After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can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

Figure 1. Removal steps of keyboard

Remove three screws **1**.



Step	Screw (quantity)	Color	Torque
1	M2 x 5 mm, flat-head, nylok-coated (3)	Black	1.85±0.15kgf.cm

Pull to unsnap the keyboard in the direction by arrows **2** **3**.

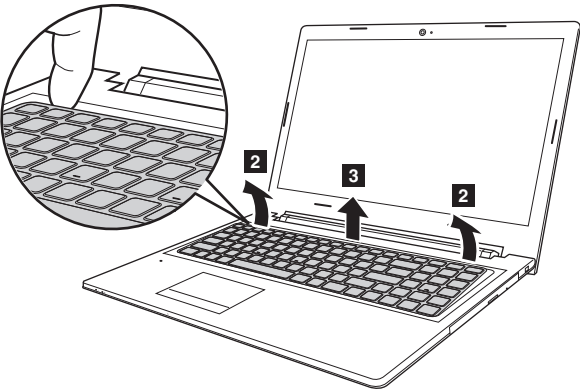
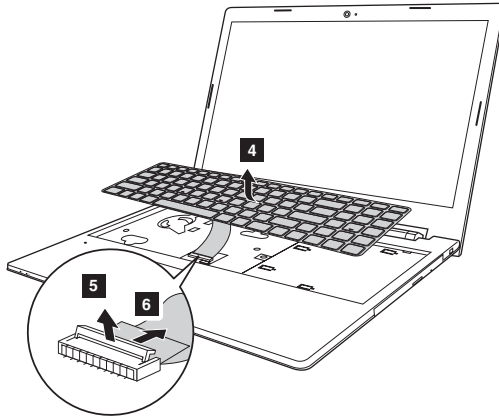


Figure 1. Removal steps of keyboard (continued)

Lift up the keyboard **4** and disconnect the connector in the direction shown by arrows **5** **6**. Be careful not to damage the connector.



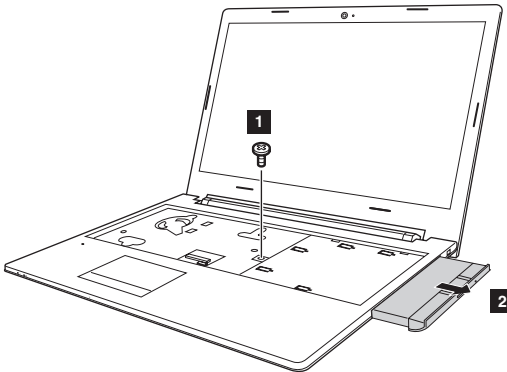
When installing: Make sure that the keyboard connector is attached firmly to the system board.

1020 Optical drive

For access, remove this FRU:
"1010 Keyboard" on page 32

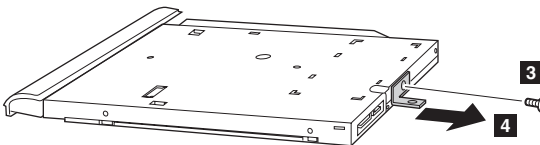
Figure 2. Removal steps of optical drive

Remove the screw **1**. Then remove the optical drive by arrow **2**.



Step	Screw (quantity)	Color	Torque
1	M2 x 8 mm, flat-head, nylok-coated (1)	Black	1.85±0.15kgf.cm

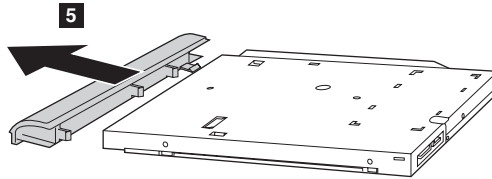
Remove the screw **3** and remove the optical drive bracket in the direction by arrow **4**.



Step	Screw (quantity)	Color	Torque
3	M2 x 3 mm, flat-head, nylok-coated (1)	Silver	1.85±0.15kgf.cm

Figure 2. Removal steps of optical drive (continued)

Unsnap to remove the optical drive bezel in the direction by arrow **5**.



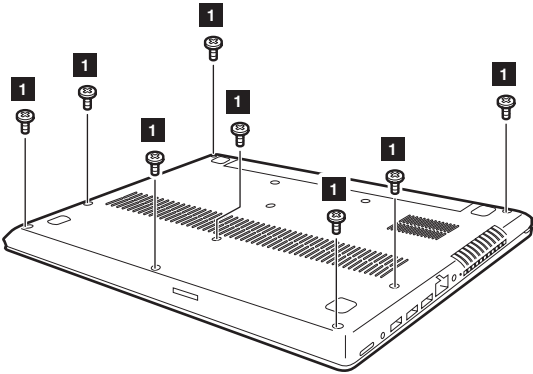
1030 Base cover

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34

Figure 3. Removal steps of base cover

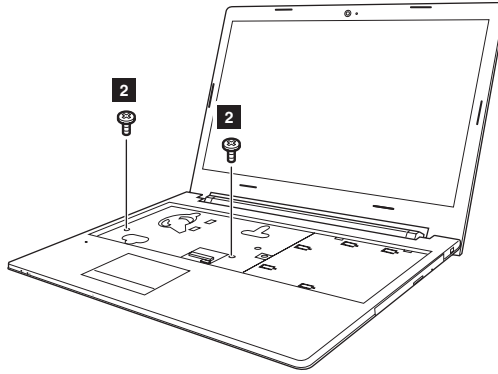
Remove eight screws **1**.



Step	Screw (quantity)	Color	Torque
1	M2 x 5 mm, flat-head, nylok-coated (8)	Black	1.85±0.15kgf.cm

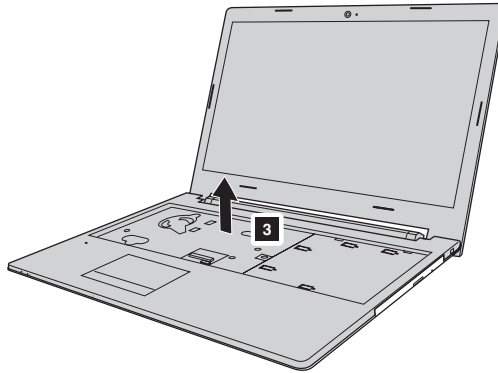
Figure 3. Removal steps of base cover (continued)

Remove the two screws **2**.



Step	Screw (quantity)	Color	Torque
1	M2 x 8 mm, flat-head, nylok-coated (2)	Black	1.85±0.15kgf.cm

Remove the base cover in the direction shown by arrow **3**.



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

1040 Battery pack

For access, remove these FRUs in order:

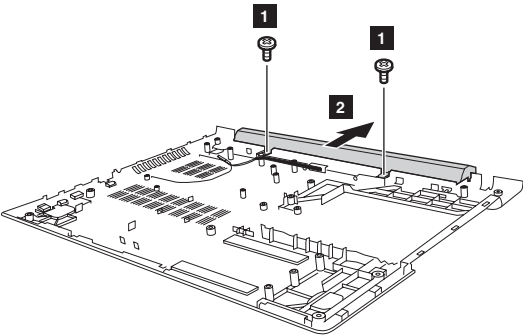
- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36

⚠ DANGER

- Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

Figure 4. Removal steps of battery pack

Remove screws **1**, then remove the battery pack in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
2	M2 x 8 mm, flat-head, nylok-coated (2)	Black	1.85±0.15kgf.cm

1050 Hard disk drive

For access, remove these FRUs in order:

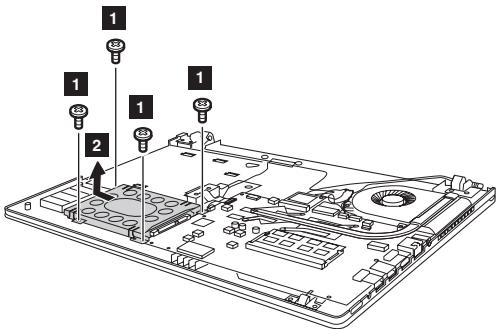
- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38

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 in suspend mode.

Figure 5. Removal steps of hard disk drive

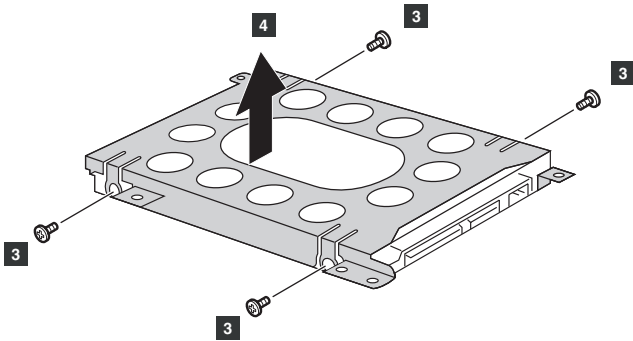
Remove the four frame fixing screws **1**. Remove the hard disk drive in the direction by arrow **2**.



Step	Screw (quantity)	Color	Torque
1	M2 x 5 mm, flat-head, nylok-coated (4)	Black	1.85±0.15kgf.cm

Figure 5. Removal steps of hard disk drive (continued)

Remove four screws **3** and detach the hard disk drive from the metal frame in the direction shown by arrow **4**.



Step	Screw (quantity)	Color	Torque
3	M3 x 3 mm, flat-head, nylok-coated (4)	Silver	3.0±0.3kgf.cm

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

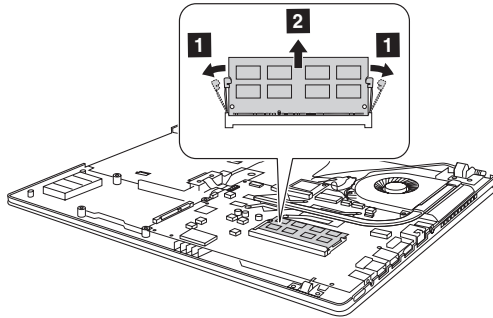
1060 DIMM

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39

Figure 6. 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.

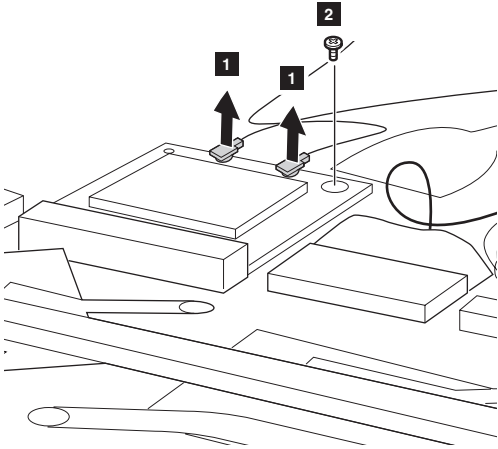
1070 PCI Express Mini Card for wireless LAN/WAN

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41

Important: The preinstalled WLAN module may only be replaced with a Lenovo approved module in order to comply with FCC and IC regulations. Refer to Table 4. Parts list—Overall on page 62 for Lenovo part numbers for the approved modules.

Figure 7. Removal steps of PCI Express Mini Card for wireless LAN/WAN
Disconnect the two wireless LAN cables (black, white) **1**, and then remove the screws **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.

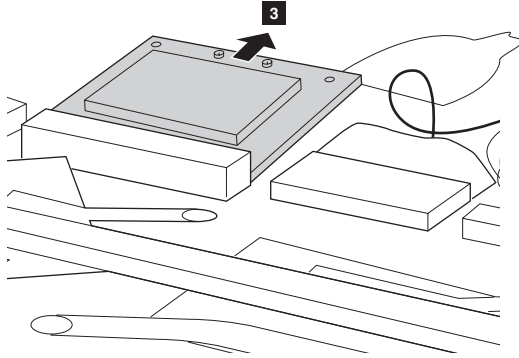
Notes: wireless LAN card has 2 cables in step **1**.

Wireless LAN card in some models may have 3 cables in step **1**.

Step	Screw (quantity)	Color	Torque
2	M2 x 5 mm, flat-head, nylok-coated (1)	Black	1.85±0.15kgf.cm

Figure 7. Removal steps of PCI Express Mini Card for wireless LAN/WAN (continued)

Remove the card in the direction shown by arrow **3**.



When installing: Plug the black cable into the jack labeled **AUX** and the white cable into the jack labeled **MAIN**.

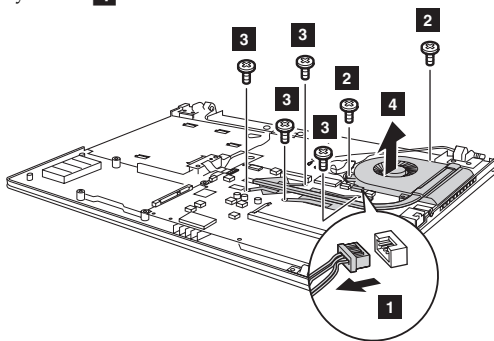
1080 Fan and heat sink assembly

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42

Figure 8. Removal steps of fan and heat sink assembly

Disconnect the fan connector in the direction by arrow **1**. Remove the screws **2** and four screws **3**. Then remove the fan and heat sink in the direction as shown by arrow **4**.



Step	Screw (quantity)	Color	Torque
2	M2 x 5 mm, flat-head, nylok-coated (2)	Black	1.85±0.15kgf.cm
3	M2 x 3 mm, flat-head, nylok-coated (4)	Silver	1.85±0.15kgf.cm

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

1090 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 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42

Figure 9. Removal steps of system board

Detach the touch pad connector in the direction by arrows **1** and **2**.

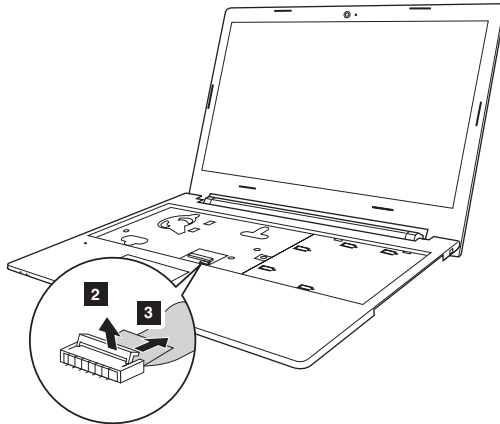
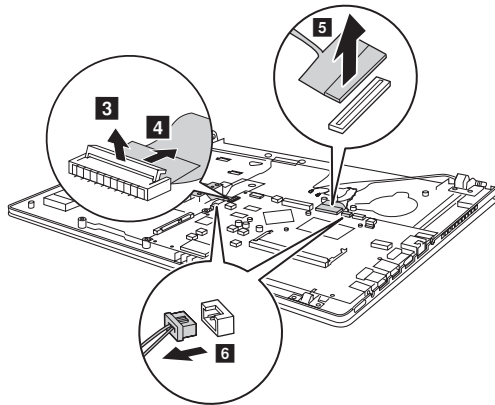
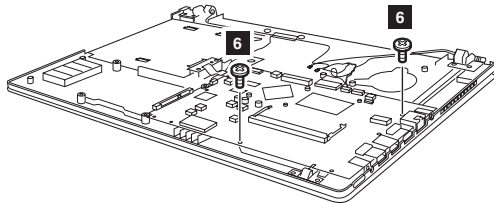


Figure 9. Removal steps of system board (continued)

Detach the ODD transfer board connector in the direction shown by arrows **3** and **4**, disconnect the EDP connector in the direction shown by arrow **5**, then unplug backup battery connector and speaker connector in the direction shown by arrow **6**.



Remove two screws **6**.



Step	Screw (quantity)	Color	Torque
4	M2 x 3 mm, flat-head, nylok-coated (2)	Silver	1.85±0.15kgf.cm

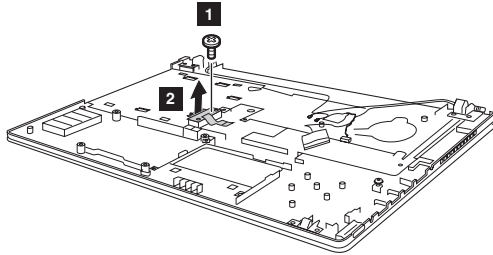
1100 ODD transfer board

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42
- “1080 Fan and heat sink assembly” on page 44
- “1090 System board” on page 45

Figure 10. Removal steps of ODD transfer board

Remove the screw **1**. Then remove the ODD transfer board in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
1	M2 x 5 mm, flat-head, nylok-coated (1)	Black	1.85±0.15kgf.cm

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

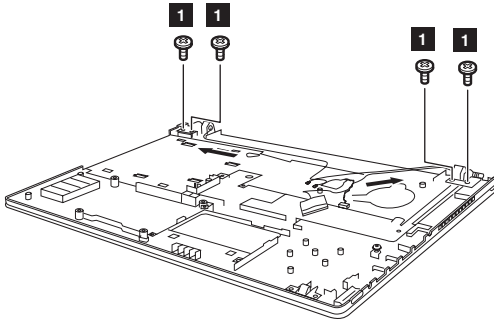
1110 LCD unit and upper cover

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42
- “1080 Fan and heat sink assembly” on page 44
- “1090 System board” on page 45
- “1100 ODD transfer board” on page 47

Figure 11. Removal steps of LCD unit and upper cover

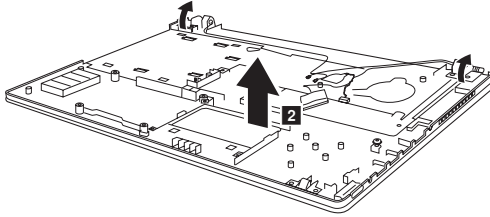
Release the two antenna cables from the cable guides by arrows. Remove four screws **1**.



Step	Screw (quantity)	Color	Torque
1	M2 x 5 mm, flat-head, nylok-coated (4)	Black	1.85±0.15kgf.cm

Figure 11. Removal steps of LCD unit and upper cover (continued)

Open the hinges. Remove the upper case from the LCD unit in the direction by arrow **2**.



Note: Applying labels to the base cover

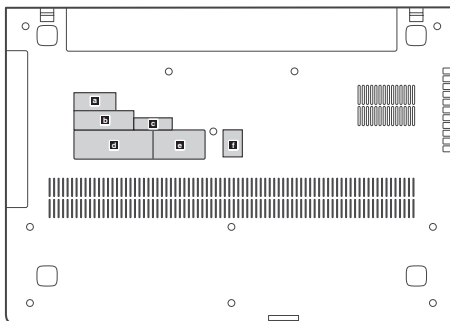
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following labels:

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

- a** WLAN & BT Label
- b** KCC label and BIS label
- c** Indonesia label
- d** Rating label
- e** Rating print label
- f** OS 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:



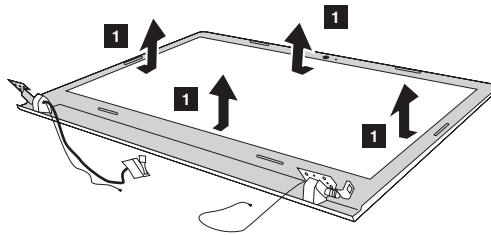
1120 LCD front bezel

For access, remove these FRUs in order:

- "1010 Keyboard" on page 32
- "1020 Optical drive" on page 34
- "1030 Base cover" on page 36
- "1040 Battery pack" on page 38
- "1050 Hard disk drive" on page 39
- "1060 DIMM" on page 41
- "1070 PCI Express Mini Card for wireless LAN/WAN" on page 42
- "1080 Fan and heat sink assembly" on page 44
- "1090 System board" on page 45
- "1100 ODD transfer board" on page 47
- "1110 LCD unit and upper cover" on page 48

Figure 12. Removal steps of LCD front bezel

Remove the LCD front bezel in the direction by arrows **1**.



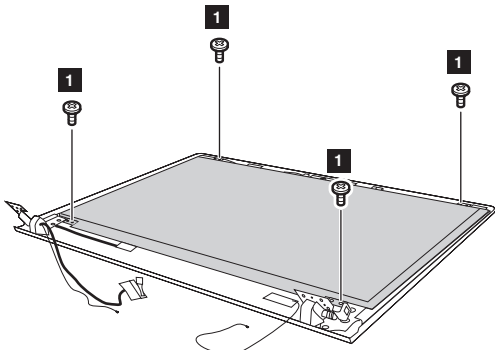
1130 LCD panel

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42
- “1080 Fan and heat sink assembly” on page 44
- “1090 System board” on page 45
- “1100 ODD transfer board” on page 47
- “1110 LCD unit and upper cover” on page 48
- “1120 LCD front bezel” on page 51

Figure 13. Removal steps of LCD panel

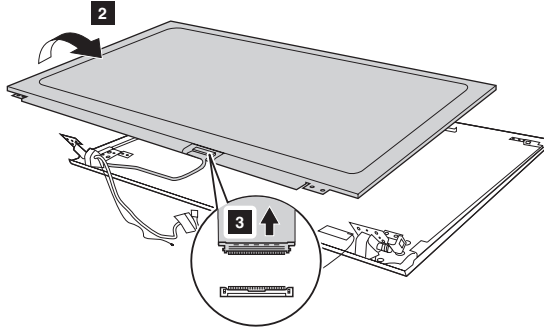
Remove four screws **1**.



Step	Screw (quantity)	Color	Torque
1	M2 x 3 mm, flat-head, nylok-coated (4)	Silver	1.85±0.15kgf.cm

Figure 13. Removal steps of LCD panel (continued)

Turn over the LCD module in the direction as shown by arrow **2**. Disconnect the connector by arrow **3** to remove the LCD panel.



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

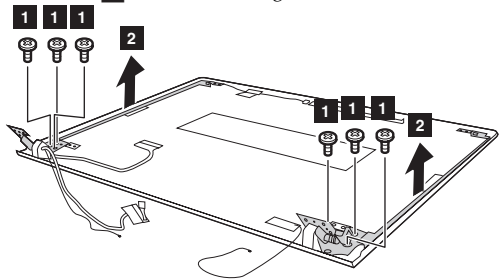
1140 LCD hinges

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42
- “1080 Fan and heat sink assembly” on page 44
- “1090 System board” on page 45
- “1100 ODD transfer board” on page 47
- “1110 LCD unit and upper cover” on page 48
- “1120 LCD front bezel” on page 51
- “1130 LCD panel” on page 52

Figure 14. Removal steps of hinges

Remove six screws **1**. Remove the hinges in the direction shown by arrows **2**.



Step	Screw (quantity)	Color	Torque
1	M2.5 x 2.5 mm, flat-head, nylok-coated (6)	Black	1.85±0.15kgf.cm

1150 Antenna, LCD cable, and integrated camera

For access, remove these FRUs in order:

- “1010 Keyboard” on page 32
- “1020 Optical drive” on page 34
- “1030 Base cover” on page 36
- “1040 Battery pack” on page 38
- “1050 Hard disk drive” on page 39
- “1060 DIMM” on page 41
- “1070 PCI Express Mini Card for wireless LAN/WAN” on page 42
- “1080 Fan and heat sink assembly” on page 44
- “1090 System board” on page 45
- “1100 ODD transfer board” on page 47
- “1110 LCD unit and upper cover” on page 48
- “1120 LCD front bezel” on page 51
- “1130 LCD panel” on page 52
- “1140 LCD hinges” on page 54

Figure 15. Removal steps of Antenna, LCD cable, and integrated camera

Unplug the camera connector in the direction shown by arrow **1**. Remove the camera from the LCD cover in the direction by arrow **2**.

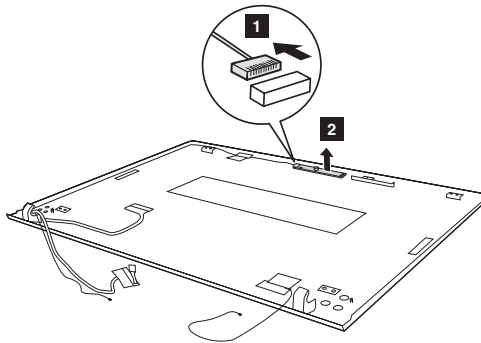
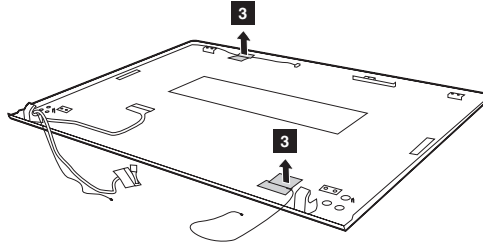


Figure 15. Removal steps of Antenna, LCD cable, and integrated camera (continued)

Release two antenna cables and one LCD cable from the cable guide. Detach the adhesive of the antenna to remove them in the direction by arrows **3**.



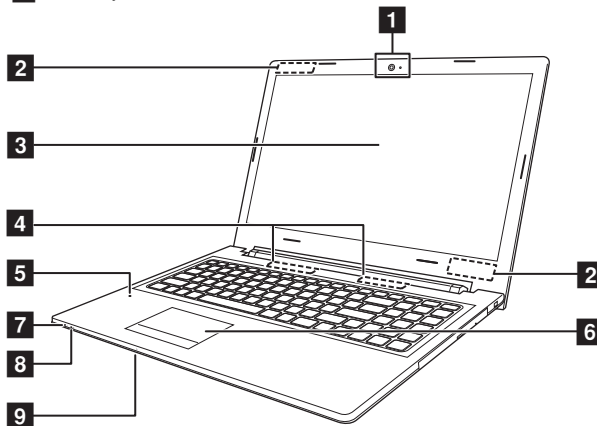
When installing:

- 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 can cause the cables to be damaged by the cable guides, or a wire to be broken.
- Make sure that the camera connector is attached firmly.

Locations

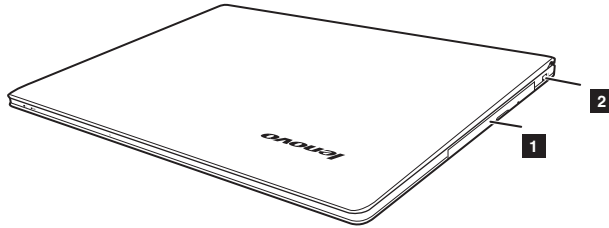
Top and front view

- 1** Integrated camera
- 2** Wireless antennas
- 3** Computer display
- 4** Speakers
- 5** Built-in microphone
- 6** Touch pad
- 7** Power status indicator
- 8** Battery status indicator
- 9** Memory card slot



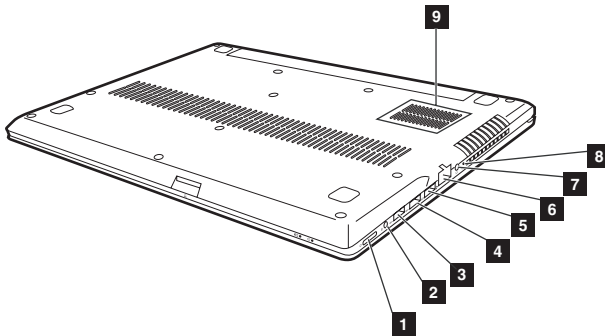
Right-side view

- 1** Optical disc drive
- 2** Kingston lock slot



Bottom and left-side view

- 1** Power button
- 2** Combo audio jack
- 3** USB 3.0 port
- 4** USB 2.0 port
- 5** HDMI port
- 6** RJ-45 port
- 7** AC power adapter jack
- 8** Novo button
- 9** Ventilation slots



Parts list

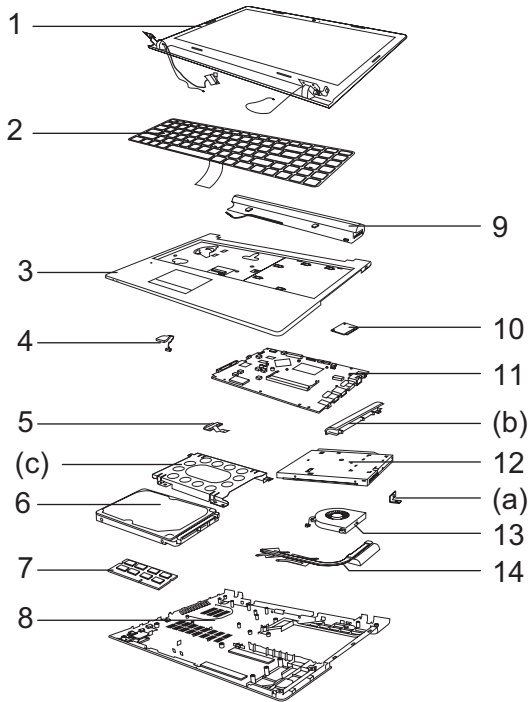
This section presents the following service parts:

- “Overall” on page 61
- “LCD FRUs” on page 65
- “Keyboard” on page 67
- “Miscellaneous parts” on page 69
- “AC adapters” on page 70
- “Screws” on page 71
- “Power cords” on page 72

Notes:

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

Overall



// *Lenovo Ideapad 100 15IBD*

Hardware Maintenance Manual

Table 4. Parts list — Overall

No.	FRU	FRU no.	CRU ID
1	LCD unit (see “LCD FRUs” on page 74)		
2	Keyboard (see “Keyboard” on page 76)		
3	Upper CoverLW/79SPEAKER100-15IBD	5CB0K25447	N
4	RTC BATTERYL5W/CDB 100-15IBD	5B10K25422	N
5	ODD BOARD LW/FFC 100-15IBD	5C50K25457	**
6	HDD, 250G 5400rpm, WD WD2500LPCX-24VHAT0	5H20J35763	N
6	HDD, 500G 5400rpm, ST500LT012 6G 7mm 5.4K 500G HDD	16200383	N
6	HDD, 500G 5400rpm, WD WD5000LPCX-24VHAT0	5H20J35762	N
6	HDD, 500G 5400rpm, MQ01ABF050 6G 7mm 5.4K 500G HDD	16200433	N
6	HDD, 500G 5400rpm, HTS545050A7E660 6G 7mm 5.4K 500G HDD	5H20H14223	N
6	HDD, 1T 5400rpm, ST1000LM024 6G 9.5mm 5.4K 1T HDD	16200385	N
6	HDD, 1T 5400rpm, WD10JPCX-24UE4T0 6G 9.5mm 5.4K 1T HDD	16200393	N
6	HDD, 1T 5400rpm, TSB MQ01ABD100 6G 9.5mm 5.4K 1T HDD	16200429	N
6	HDD, 1T 5400rpm, HTS541010A9E660 6G 9.5mm 5.4K 1T HDD	16200400	N
6	SSD, 128G 2.5" SATA(low cost), Samsung MZYL128HCHP 2.5" 5mm 128GB SSD	5SD0H45117	N
7	RAM on board, 4Gb x16 DDR3L 1600 SDRAM, K4B4G1646Q-HYK0	1100918	N
7	RAM on board, 4Gb x16 DDR3L 1600 SDRAM, H5TC4G63CFR-PBA	5M30G99882	N
7	RAM on board, 4Gb x16 DDR3L 1600 SDRAM, MT41K256M16LY-107 :N	SM30G54784	N
7	RAM, DDR3L 1600 4GB, M471B5173EB0-YK0 4GB DDR3L 1600	5M30G18425	N
7	RAM, DDR3L 1600 4GB, HMT451S6BFR8A-PB/RD 4GB DDR3L 1600	11202706	N
7	RAM, DDR3L 1600 4GB, RMT3170MN68F9F-1600 4GB DDR3L 1600	5M30G75129	N
7	RAM, DDR3L 1600 4GB, MT8KTF51264HZ-1G6E1 4GB DDR3L 1600	11202125	N
7	RAM, DDR3L 1600 8GB, M471B1G73EB0-YK0 8GB DDR3L 1600	5M30G18424	N
7	RAM, DDR3L 1600 8GB, HMT41GS6BFR8A-PB/RD 8GB DDR3L 1600	11202707	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID
7	RAM, DDR3L 1600 8GB, RMT3160ME68FAF-1600 8GB DDR3L 1600	11202450	N
7	RAM, DDR3L 1600 8GB, MT16KTF1G64HZ-1G6E1 8GB DDR3L 1600	11201304	N
8	Lower Cover L 100-15IBD	5CB0K25439	N
9	Battery, 4cell 32Wh Li-Cylinder, Gx1 SY L15S4A01 14.4V32Wh4cell btyC	5B10K02215	N
9	Battery, 4cell 32Wh Li-Cylinder, Gx1 SP/L L15M4A01 14.4V32Wh4cell btyC	5B10K02219	N
9	Battery, 4cell 32Wh Li-Cylinder, Gx1 LG L15L4A01 14.4V32Wh4cell btyC	5B10K02218	N
10	Wlan, WiFi 1x1 BGN only, PW AR5B125 1x1BGN HMC wireless	SA80J78642	N
10	Wlan, WiFi 1x1 BGN only, AW RTL8188EE 1x1BGN HMC wireless	SA80J78605	N
10	Wlan, WiFi 1x1 BGN+BT4.0, AW RTL8723BE-CG HMC wireless	SA80J78641	N
10	Wlan, WiFi 1x1 BGN+BT4.0, cybertan RTL8723BE HMC wireless	20200440	N
10	WLAN 1X1 BGN 100-14IBD	5W10K27044	N
10	WLAN 1x1 BGN+BT4.0 100-14IBD	5W10K27043	N
11	MBLI5-5200UV1G WIN10015IBD	5B20K25442	N
11	MBL3825UV1G WIN10015IBD	5B20K25456	N
11	MBL3825UD2G WIN10015IBD	5B20K25427	N
11	MBLI3-5005UPD2G WIN10015IBD	5B20K25409	N
11	MBLI5-5200UD2GV1G WIN10015IBD	5B20K25400	N
11	MBLI3-5005UPV1G WIN10015IBD	5B20K25385	N
11	MBLI3-5005UPD2GV1G WIN10015IBD	5B20K25460	N
11	MBLI5-5200UWIN10015IBD	5B20K25458	N
11	MBLI5-5200UD2G WIN10015IBD	5B20K25433	N
11	MBLI3-5005UPWIN10015IBD	5B20K25407	N
11	MBL3825U WIN10015IBD	5B20K25382	N
11	MBL3825UD2G V1G WIN10015IBD	5B20K25446	N
11	MBL3215UD2G V1G WIN10015IBD	5B20K25429	N
11	MBL3215UD2G WIN10015IBD	5B20K25426	N
11	MBL3215UWIN10015IBD	5B20K25397	N
11	MBL3215UV1G WIN10015IBD	5B20K25453	N
11	MBLI5-5200UV1G NOK10015IBD	5B20K25432	N
11	MBL3825UV1G NOK10015IBD	5B20K25403	N
11	MBL3825UD2G NOK10015IBD	5B20K25384	N
11	MBLI3-5005UPD2G NOK10015IBD	5B20K25449	N
11	MBLI5-5200UD2G V1G NOK10015IBD	5B20K25438	N
11	MBLI3-5005UPV1G NOK10015IBD	5B20K25421	N
11	MBLI3-5005UPD2G V1G NOK10015IBD	5B20K25412	N
11	MBLI5-5200UNOK10015IBD	5B20K25391	N
11	MBLI5-5200UD2G NOK10015IBD	5B20K25450	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID
11	MBLI3-5005UPNOK10015IBD	5B20K25381	N
11	MBL3825UNOK10015IBD	5B20K25428	N
11	MBL3825UD2G V1G NOK10015IBD	5B20K25411	N
11	MBL3215UD2G V1G NOK10015IBD	5B20K25398	N
11	MBL3215UD2G NOK10015IBD	5B20K25454	N
11	MBL3215UNOK10015IBD	5B20K25424	N
11	MBL3215UV1G NOK10015IBD	5B20K25401	N
12	ODD, 9.0 Rambo, HLDS GUC0N 9.0mm Slim Tray Rambo ODD	5DX0F85915	**
12	ODD, 9.0 Rambo, HLDS GUE0N DVD RW	5DX0J46488	**
12	ODD, 9.0 Rambo, PLDS DA-8A6SH 9.0mm Slim Tray Rambo ODD	5DX0F86404	**
12	ODD, 9.0 Rambo, PSN UJ8HC 9.0mm Slim Tray Rambo ODD	5DX0G86787	**
12	ODD, 9.0 Rambo, TSST SU-228GB 9.0 Rambo ODD	5DX0H14227	**
13	FAN L 100-15IBD	5F10K25451	N
14	THERMAL L DIS 100-15IBD	5H40K25440	N
14	THERMAL L UMA 100-15IBD	5H40K25413	N

LCD FRUs

In Lenovo Ideapad 100 15IBD, the type of LCD is 15.6-inch high definition (HD).

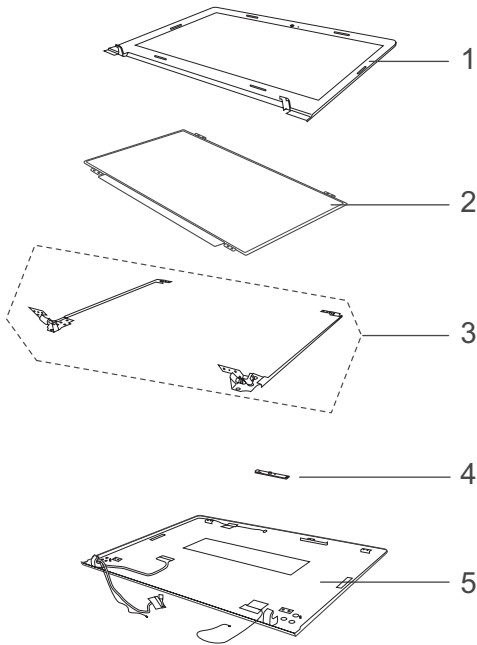


Table 5. Parts list — 15.6-in. HD TFT

No.	FRU	FRU no.	CRU ID
1	LCD BEZEL L100-15IBD	5B30K25383	N
2	Panel, HD-G eDP 3.8t BOE N156WHM-N12 HD G F NB	5D10G74897	N
2	Panel, HD-G edp 3.8t CMI N156BGE-EB2 HD G S NB	5D10H13020	N
2	Panel, HD-G edp 3.8t LG LP156WHB-TPGA HDT G F NB	5D10H91342	N
2	Panel, HD-G edp 3.8t SDC LTN156AT39-L01 HD G F NB	5D10H13022	N
2	Panel, HD-G edp 3.8t AUO B156XTN04.5 1A HD G F NB	5D10H15253	N
3	HINGE L+R L100-15IBD	5H50K25393	N
4	Camera, 0.3M 30W EA(wisepower) Wisepower ZB-A022-ZY 0.3M NB Camera	SC20J78640	N
4	Camera, 0.3M 30W EA(Azurewave) AzureWave AM-VS078 0.3M NB Camera	SC20J99033	N
4	CAMERA L 0.3M 100-15IBD	5C20K25455	N
5	LCD COVER LW/2ANTENNA 100-15IBD	5CB0K25436	N
5	LCD COVER LW/1ANTENNA 100-15IBD	5CB0K25419	N

Keyboard

Table 6. Parts list — Keyboard

Language		P/N	CRU ID
EA (Docking) Black Keyboard	English	SN20J78609	**
	U.K. English	SN20J78579	
	Italian	SN20J78620	
	Spanish	SN20J78593	
	Turkish	SN20J78624	
	Thailand	SN20J78600	
	Portugue	SN20J78633	
	Latin	SN20J78594	
	Canada English &French	SN20J78639	
	Korean	SN20J78599	
	Tradational Chinese	SN20J78632	
	Russian	SN20J78592	
	French	SN20J78628	
	German	SN20J78598	
	Arabic	SN20J78627	
	Brazilian	SN20J78597	
	Japanese	SN20J78631	
	Dutch	SN20J78587	
	Greek	SN20J78619	
	Hebrew	SN20J78591	
	Hungarian	SN20J78635	
	Four Nordic countries	SN20J78601	
	Belgian	SN20J78625	
	Iceland	SN20J78595	
	Slovenian	SN20J78636	
	Swiss	SN20J78588	
	International English	SN20J78623	
	Czechoslovakian	SN20J78602	
	Bulgarian	SN20J78637	
	India	SN20J78606	
	French-Arabic	SN20J78607	

Table 6. Parts list—Keyboard (continued)

Language		P/N	CRU ID
Backlight Keyboard	English	5N20K25394	**
	U.K. English	5N20K25408	
	Italian	5N20K25395	
	Spanish	5N20K25452	
	Turkish	5N20K25430	
	Thailand	5N20K25416	
	Portugue	5N20K25399	
	Latin	5N20K25406	
	Canada English &French	5N20K25392	
	Korean	5N20K25448	
	Tradational Chinese	5N20K25434	
	Russian	5N20K25414	
	French	5N20K25396	
	German	5N20K25459	
	Arabic	5N20K25431	
	Brazilian	5N20K25415	
	Japanese	5N20K25410	
	Dutch	5N20K25390	
	Greek	5N20K25441	
	Hebrew	5N20K25420	
	Hungarian	5N20K25402	
	Four Nordic countries	5N20K25388	
	Belgian	5N20K25445	
	Iceland	5N20K25425	
	Slovenian	5N20K25405	
	Swiss	5N20K25387	
	International English	5N20K25444	
	Czechoslovakian	5N20K25423	
	Bulgarian	5N20K25404	
	India	5N20K25386	
	French-Arabic	5N20K25443	

Miscellaneous parts

Table 7. Parts list—Miscellaneous parts

No.	FRU	FRU no.	CRU ID
	System miscellaneous parts:		
(a)	ODD BRACKET L 100-15IBD	5B40K25389	N
(b)	ODD BEZEL L 100-15IBD	5B30K25417	N
(c)	HDD BRACKET L100IBD 7mm	5B40K41693	N
(c)	HDD BRACKET L100IBD 9.5 mm	5B40K41694	N
	Cable miscellaneous parts:		
	Note: Italicized letters in parentheses are references to the exploded view in “Overall” on page 61.		

AC adapters

Table 8. Parts list—3-pin AC adapters

FRU	P/N	CRU ID
Adapter, 45W wall mount with round plug, Delta ADP-45DW AA 20V2.25A adapter	5A10H43620	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW JA 20V2.25A adapter	5A10H43623	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW BA 20V2.25A adapter	5A10H43630	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW DA 20V2.25A adapter	5A10H43621	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW HA 20V2.25A adapter	5A10H43627	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW GA 20V2.25A adapter	5A10H43617	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW EA 20V2.25A adapter	5A10H43626	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW CA 20V2.25A adapter	5A10H43632	*
Adapter, 45W wall mount with round plug, Delta ADP-45DW KA 20V2.25A adapter,	5A10H43624	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LN 20V2.25A adapter	5A10H42921	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LG 20V2.25A adapter	5A10H42920	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LL 20V2.25A adapter	5A10H42923	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LK 20V2.25A adapter	5A10H42917	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LI 20V2.25A adapter	5A10H42926	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LR 20V2.25A adapter	5A10H42919	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LS 20V2.25A adapter	5A10H42922	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LU 20V2.25A adapter	5A10H42925	*
Adapter, 45W wall mount with round plug, Liteon PA-1450-55LZ 20V2.25A adapter	5A10H42918	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCA 20V2.25A adapter	5A10H43629	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCB 20V2.25A adapter	5A10H43618	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCC 20V2.25A adapter	5A10H43625	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCD 20V2.25A adapter	5A10H43631	*

Table 8. Parts list—3-pin AC adapters (continued)

FRU	P/N	CRU ID
Adapter, 45W wall mount with round plug, Chicony ADL45WCK 20V2.25A adapter	5A10H43619	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCE 20V2.25A adapter	5A10H43633	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCF 20V2.25A adapter	5A10H43622	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCG 20V2.25A adapter	5A10H43628	*
Adapter, 45W wall mount with round plug, Chicony ADL45WCH 20V2.25A adapter	5A10H43616	*
Adapter, 65W with round plug, Chicony ADLX65NCC3A 20V3.25A R	5A10J40450	*
Adapter, 65W with round plug, Liteon ADLX65NLC3A 20V3.25A R	5A10J40449	*
Adapter, 65W with round plug, Delta ADLX65NDC3A 20V3.25A R	5A10J40451	*

Screws

Table 9. Screw list

FRU	P/N	CRU ID
SCREW L MM1.98D3LK4.5DNINL0.4T	5S10K25435	N
SCREW L MM2D5LK4.6D ZKNL CR3+	5S10K25418	N

Power cords

A Lenovo 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	CRU ID
Brazil	145-000596	*
• LINETEK LS15 H03VV-F LP26A 1m		
Brazil	145-000564	
• Longwell LP-46+H03VV-F+LS-18 1m		
Brazil	145-000527	
• VOLEX CH10S3+H03VV-F+VAC5S 1m		
Brazil	145-500011	
• lux 0034+H03VV-F 0.75/3C+0011 1m		
Israel	145-000595	
• LINETEK LS15+H03VV-F+LP-41 1m		
Israel	145-000563	
• Longwell LP-41+H03VV-F+LS-18 1m		
Israel	145-000526	
• VOLEX SI16S3+H03VV-F+VAC5S 1m		
Israel	145-500012	
• lux 0041+H03VV-F 0.75/3C+0011 1m		
CE	145-000585	
• LINETEK LP-34+H03VV-F + LS15 1m		
CE	145-000553	
• Longwell LP-34A+H03VV-F+LS-18 1m		
CE	145-000525	
• VOLEX M2511+H03VV-F+VAC5S 1m		
CE	145-500001	
• lux 0033+H03VV-F 0.75/3C+0011 1m		
Switzerland	145-000597	
• LINETEK LS15+H03VV-F+LP-37 1m		
Switzerland	145-000565	
• Longwell LP-37+H03VV-F+LS-18 1m		
Switzerland	145-000524	
• VOLEX MP232+H03VV-F+VAC5S 1m		
Switzerland	145-500013	
• lux 0027+H03VV-F 0.75/3C+0011 1m		
UK	145-000593	
• LINETEK LP-61L+ H03VV-F+ LS15 1m		
UK	145-000561	
• Longwell LP-61L+H03VV-F+LS-18 1m		
UK	145-000605	
• VOLEX MP5004+H03VV-F+VAC5S 1m		
UK	145-500000	
• lux 0031+H03VV-F 0.75/3C+0011 1m		

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

Region	P/N	CRU ID
UL • LINETEK LP-30B + SPT-2 + LS15 1m	145-000594	*
UL • Longwell LP-30B+SPT-2 18AWG+LS-18 1m	145-000562	*
UL • Volex US15S3+SPT-2 +VAC5S 1m	145-000537	*
UL • lux 0014+SPT-2 60°C 18/3C+0016 1m	145-500002	*
CCC • LINETEK PC323+RVV300/300+LS15 1m	145-000600	*
CCC • Longwell LSG-31+RVV300/300+LS-18 1m	145-000568	*
CCC • VOLEX GB10S3+RVV 300/500+VAC5S 1m	145-000538	*
CCC • lux 0036+RVV 300/300 0.75/3C+0002 1m	145-500003	*
India • LINETEK PE-361+ H05VV-F+ LS15 1m	145-000592	*
India • Longwell LP-67+BIS+LS-18 1m	145-000560	*
India • lux 0046+IS694 0.75/3C+0011 1m	145-500004	*
Japan • LINETEK LS15+VCTF+LP-54 1m	145-000587	*
Japan • Longwell LP-54+VCTF+LS-18 1m	145-000555	*
Japan • VOLEX VAC5S+VCTF+M755 1m	145-000530	*
Japan • lux 0018(E)+VCTF 0.75/3C+0021 1m	145-500005	*
Australia • LINETEK LS15+H03VV-F+LP-23A 1m	145-000589	*
Australia • Longwell LP-23A+LFC-3R+LS-18 1m	145-000557	*
Australia • VOLEX AU10S3+H03VV-F+VAC5S 1m	145-000532	*
Australia • lux 0038+H03VV-F 0.75/3C+0011 1m	145-500006	*
Taiwan • LINETEK LS15+VCTF+LP-53 1m	145-000588	*
Taiwan • Longwell LP-71+VCTF+LS-33 1m	145-000556	*
Taiwan • VOLEX TW15CS3+VCTF+VAC5S 1m	145-000531	*

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

Region	P/N	CRU ID
Taiwan • lux 0019+VCTF 0.75/3C+0021 1m	145-500007	*
Korea • LINETEK LS15+H05VV-F+LP-E04A 1m	145-000590	
Korea • Longwell LP-486+KTLH03VV-F+LS-5 1m	145-000558	
Korea • VOLEX M2511+KETI IEC+VAC5S 1m	145-000533	
Korea • lux 0033+H03VV-F 0.75/3C+0011 1m	145-500008	
Italy • LINETEK LS15+H03VV-F+PE-336 1m	145-000591	
Italy • Longwell LP-22+H03VV-F+LS-18 1m	145-000559	
Italy • VOLEX IT10S3+H03VV-F+VAC5S 1m	145-000535	
Italy • lux 0029+H03VV-F 0.75/3C+0011 1m	145-500009	
South Africa • LINETEK LS15+H03VV-F+PE-364 1m	145-000586	
South Africa • Longwell LP-39+H03VV-F+LS-18 1m	145-000554	
South Africa • lux 0044+H03VV-F 0.75/3C+0011 1m	145-500010	
Denmark • LINETEK LS15+H03VV-F+LP-38 1m	145-000598	
Denmark • Longwell LP-40+H03VV-F+LS-18 1m	145-000566	
Denmark • VOLEX MP233D+H03VV-F+VAC5S 1m	145-000534	
Denmark • lux 0048+H03VV-F 0.75/3C+0011 1m	145-500014	
Argentina • LINETEK LS15+H03VV-F+LP39 1m	145-000599	
Argentina • Longwell LP-24+H03VV-F+LS-18 1m	145-000567	
Argentina • VOLEX VA2073+H03VV-F+VAC5S 1m	145-000528	
Argentina • lux 0040+H03VV-F 0.75/3C+0011 1m	145-500015	
Thailand • lux 0014+H03VV-F 0.75/3C+0011 1m	5L60J33143	

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