

# Lenovo

ideapad D330-10IGM

Hardware

Maintenance

Manual

**Lenovo**<sup>™</sup>

**Note:**

- Before using this information and the product it supports, be sure to read the general information under “Notices” on page 59.

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## About this manual

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

**Lenovo ideapad D330-10IGM**

The illustrations and descriptions in this manual may differ from the actual product. Please refer to the actual product.

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.

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## **Safety information**

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This chapter presents the following safety information that you need to get familiar with before you service a Lenovo ideapad D330-10IGM 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.
- Please remove covers and other parts in a safe place, away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip over it.
- Do not wear loose clothing that can be trapped in the moving parts of 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.

- 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:
  - 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 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.

**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 כמויות קטנות של ניקל וקדמיום. אין לפרק סוללות המתנה, לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לשלוק את הסוללה בנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה המומיפה 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请使用してください。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, veuillez 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.

מאזו הסוללה מכיל כמות קטנה של ניקל וקדמיום. אין לפרק את מאזו הסוללה, להשליך אותו לאש או למים או לקצר אותו. יש לסלק את מאזו הסוללה הסוללה כנדרש על ידי התקנות החוקיים המקומיים. יש להשתמש רק בסוללה המובנית ברשימת החלקים המתאימה בזמן החלפת מאזו 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 לפגיעות קשות. אין לטעון אותה מחדש, לנטות את המחובר המקוטב שלה, למרק אותה או לחמם אותה לטמפרטורה העולה על 100 מעלות צלזיוס. אין לשרוף את הסוללה ואין לחשוף את תוכן התא למים. יש לנטות את הסוללה כנדרש במקנות ובחוקים המקומיים. יש להשתמש רק בסוללה המומייעה ברשימת החלקים המתאימים. שימוש בסוללה אחרת עלול לגרום לטכנת 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°C (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 incinerar 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 for 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 הנביש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע עם עיניכם או ידיכם, שטפו את האזורים הנוגעים 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 sintoma 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 מוארקות 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 משקעי החשמל, להוציא את מארזי הסוללה, וזו 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 nehladte 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.

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## Important service information

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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://support.lenovo.com>.

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## 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://support.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.

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## General checkout

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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.**
- **Carefully remove screws for reuse when replacing FRUs.**
- **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

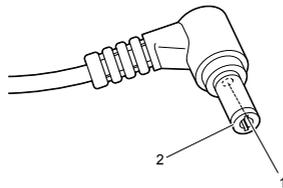
### Checking the AC adapter

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”.

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)	Current (A DC)
1	20	2.25
2	0	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 D330-10IGM” 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.

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## Related service information

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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

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## Restoring the factory contents by using Push-button reset

### Restore of factory default

The Lenovo ideapad D330-10IGM computers come with pre-installed Push-button reset. 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, press the Novo button and run **System Recovery**. For details of Push-button reset, see the *Recovery system* in the *User Guide*.

**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.

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

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

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.

### 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.

### Administrator password

Administrator password controls the access of the whole setup utility. Only after the Administrator password has been set can the User password be set. If Administrator password was cleared, the User password was cleared too.

## 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. To end screen blank state and resume normal operation, press any key on the keyboard or press the power button.

### Putting the computer to sleep or shutting it down

When you have finished working with your computer, you can put it to sleep or shut it down.

### Putting your computer to sleep

If you will be away from your computer for only a short time, put the computer to sleep.

When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

To put the computer to sleep, do one of the following:

- Close the display lid.
- Press the power button.
- Select the **Start button** , then select **Power**  → **Sleep**.

**Note:** Put your computer to sleep before you move it. Moving your computer while the hard disk drive is spinning can damage the hard disk, causing loss of data.

To wake up the computer, do one of the following:

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

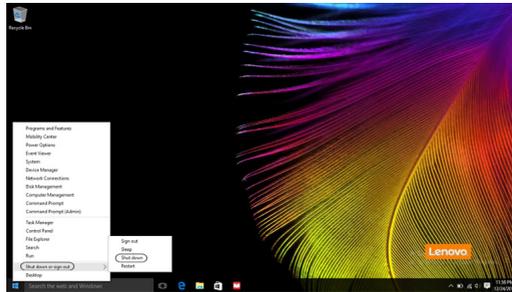
## Shutting down the computer

If you are not going to use your computer for a long time, shut it down.  
To shut down your computer, do one of the following:

- Select the **Start button** , then select **Power**  → **Shut down**.



- Right-click or press the **Start button**  in the lower-left corner and select **Shut down or sign out** → **Shut down**.



## Lenovo ideapad D330-10IGM

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

- “Specifications” on page 27
- “Function key combinations” on page 29
- “FRU replacement notices” on page 30
- “Removing and replacing an FRU” on page 31
- “Locations” on page 49
- “Parts list” on page 52

## Specifications

The following table lists the specifications of the Lenovo ideapad D330-10IGM:

*Table 1. Specifications*

<b>Form Factor</b>	
Dimensions	Appr. 249 mm × 178 mm × 9.5 mm
Weight	Appr. 610g (Tablet) / 535g (Dock)
LCD size	10.1-inch
<b>Processor</b>	
See the system properties of your computer, you can do this as follows: Click <b>Control Panel</b> , then click <b>Hardware and Sound</b> , click <b>Device Manager</b> under <b>Devices and Printers</b> and double click <b>Processors</b> .	
<b>Memory</b>	
Type and speed	LPDDR4 2133 MHz
Maximum supported capacity	8 GB
<b>Storage</b>	
Interface	eMMC
<b>Display</b>	
Display resolution (LCD)	1920 × 1200 pixels FHD/1280 × 800 pixels HD
LCD backlight	LED
<b>I/O Ports</b>	
USB	Type-C (USB 3.1/DP/PD (on select models)) × 1, USB 2.0 × 2 (On Dock)
Audio	Combo audio jack × 1
Memory card slot	Micro SD/Nano SIM (on select models)
<b>Battery pack</b>	
Type	Li-Polymer
Cells/Capacity	2 cell, 39Wh
<b>Note:</b> The capacity given here is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).	

Table 1. Specifications (continued)

<b>AC power adapter</b>	
Input	100-240 V, 50-60 Hz
Output voltage	20 V DC
Power	45 W
<b>Miscellaneous</b>	
Camera	HD

## Function key combinations

Through the use of the function keys, you can change operational features instantly.

Table 2. Function key combinations

Fn + 	Mutes/unmutes the sound.	Fn + 	Increases the volume level.
Fn + 	Closes the currently active window.	Fn + 	Activates the break function.
Fn + 	Enables/disables the touchpad.	Fn + 	Activates the pause function.
Fn + 	Enables/disables Airplane mode.	Fn + 	Activates the system request.
Fn + 	Activates the home key function.	Fn + 	Enables/Disables the scroll lock.
Fn + 	Activates the end key function.	Fn + 	Activates the insert function.
Fn + 	Increases the display brightness.	Fn + 	Activates the print screen function.
Fn + 	Decreases the display brightness.	Fn + 	Activates the sleep mode.
Fn + 	Decreases the volume level.	Fn + 	Activates the Magnifier Utility.

**Note:** Functions above applied only on systems where applicable.

## 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.

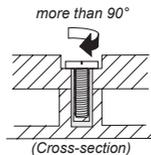
Do the following when you service this machine:

- Keep the screw kit in your tool bag.
- Carefully remove screws for reuse when replacing FRUs.
- Use a torque screwdriver if you have one.

Tighten screws as follows:

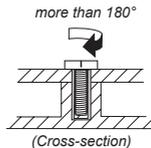
- **Plastic to plastic**

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. **Carefully remove screws for reuse when replacing FRUs. 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 49.
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.

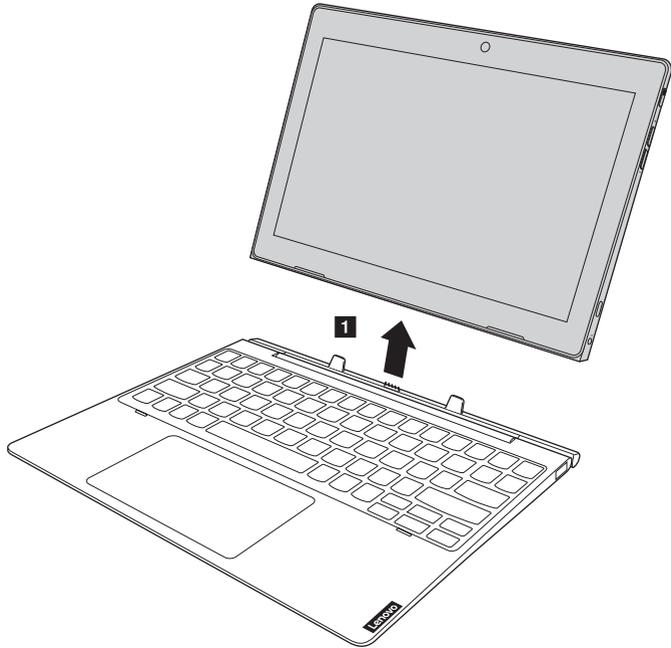
**Attention:** After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes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

Figure 1. Removal steps of tablet

Detach the tablet in the direction shown by the arrow **1**.



**Note:**

Be careful not to damage the connector when attaching or detaching the tablet.

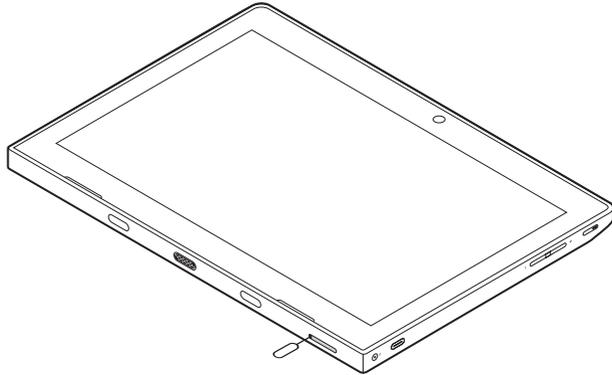
## 1020 Nano-SIM-card and microSD card tray

For access, remove this FRU:

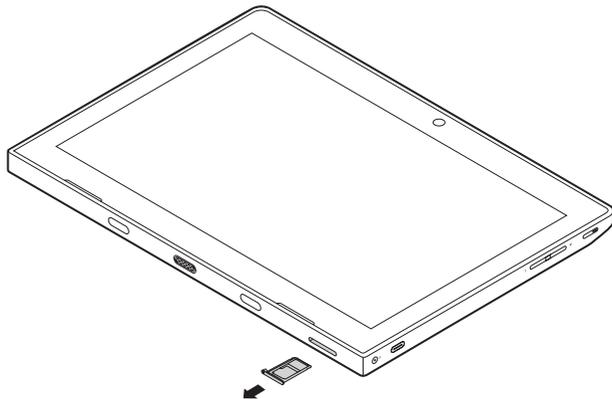
- “1010 Tablet” on page 32

*Figure 2. Removal steps of Nano-SIM-card and microSD card tray*

Insert a prying pin into the hole on the card tray and push it straight in until the card tray pops out.



Pull out the card tray.



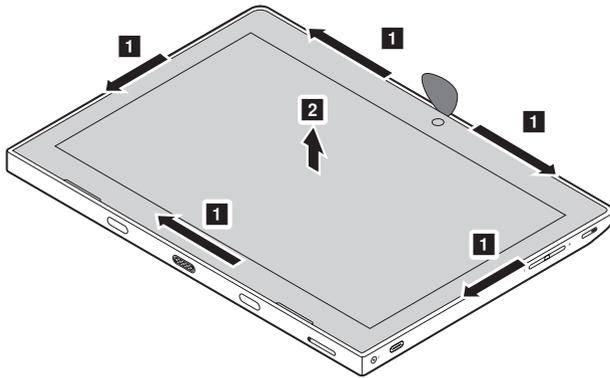
## 1030 Tablet cover

For access, remove this FRU:

- “1010 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33

*Figure 3. Removal steps of tablet cover*

Turn over the tablet. Insert a prying tool to separate the tablet cover from the tablet in the directions shown by arrows **1**. Then remove the tablet cover in the direction shown by arrow **2**.



**Note:**

Be careful when separating the tablet cover. Do not force apart the tablet cover. Otherwise, the tablet could be damaged.

**Note: Applying labels to the cover**

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

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

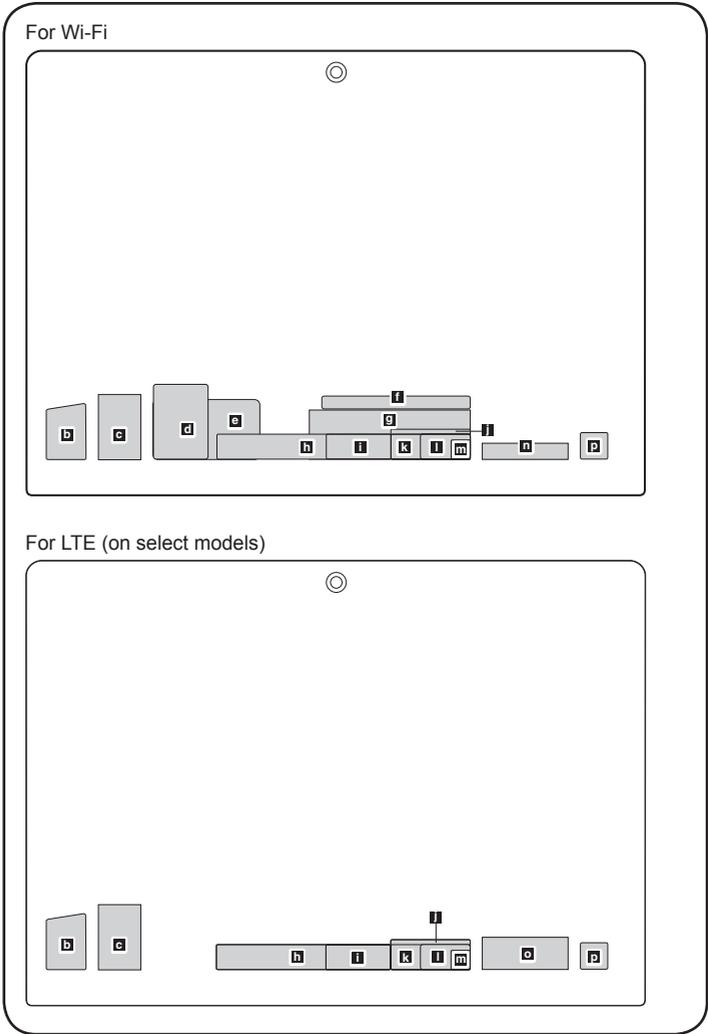
- a** Print label
- b** Windows label
- c** QR label
- d** BIS label
- e** KCC WL&BT label
- f** Argentina label
- g** Argentina label
- h** TW vision warning label
- i** Indonesia rating label
- j** Indonesia WL&BT Certificate label
- k** Israel label or US/CA/TW/RF Label
- l** South African ICASA Label
- m** MC Label
- n** SN label
- o** IMEI label
- p** intel label
- q** 8S label for Docking

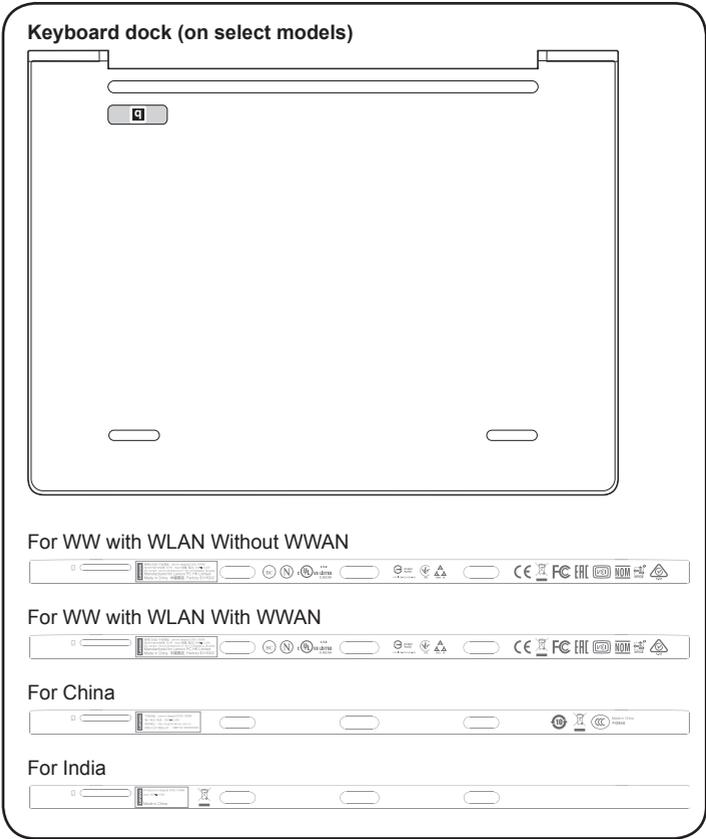
For some models, you also need to apply one or two FCC labels. Check the old cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new cover.

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

**Tablet**







## 1040 Battery pack

**⚠ DANGER**

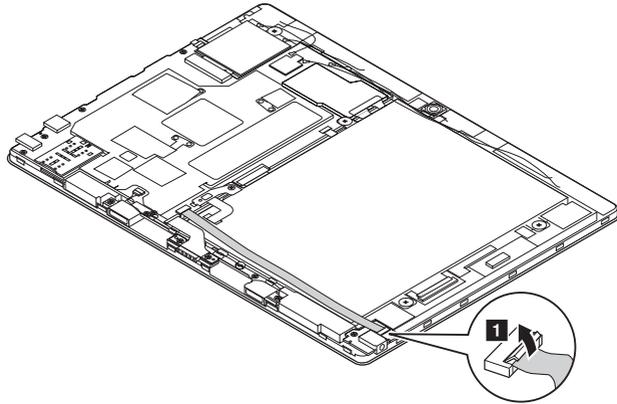
Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

For access, remove this FRU:

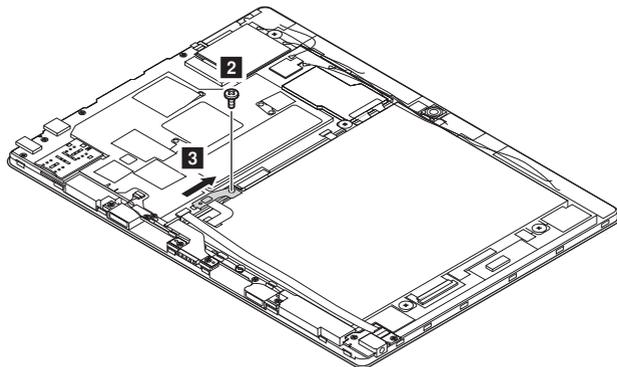
- “1010 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33
- “1030 Tablet cover” on page 34

*Figure 4. Removal steps of battery pack*

Disconnect the audio card connector in the direction shown by arrow **1**.

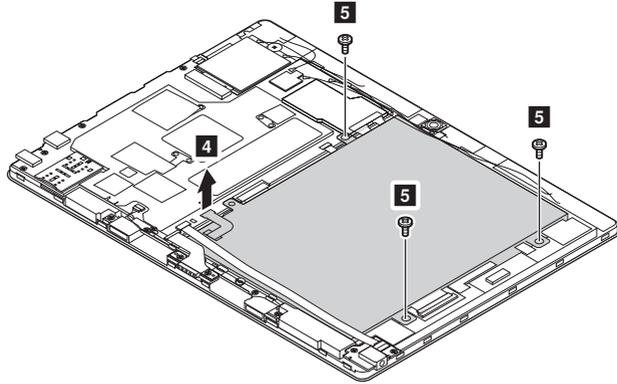


Remove the screw **2**. Then remove the bracket of battery pack connector in the direction shown by arrow **3**.



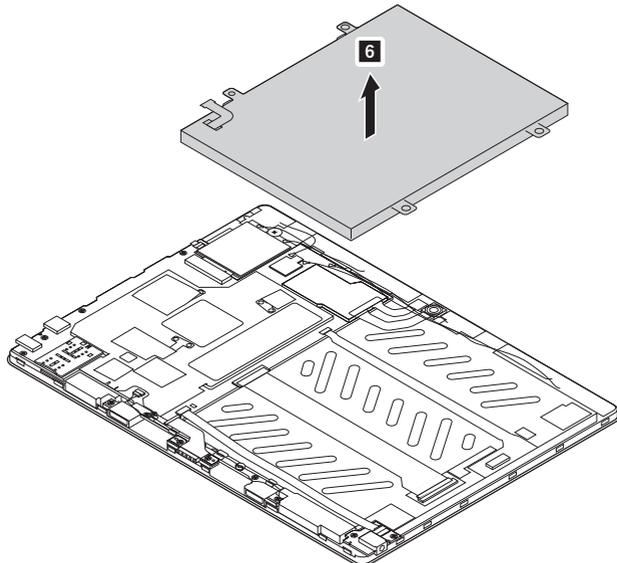
Step	Screw (quantity)	Color
2	M2.0*2mm_0.5mm_7mm, Phillips-head (1)	Black

Disconnect the battery pack connector in the direction shown by arrow 4. Remove the screws 5.



Step	Screw (quantity)	Color
5	M2.0*2mm_0.5mm_7mm, Phillips-head (3)	Black

Remove the battery pack in the direction shown by arrow 6.



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

## 1050 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

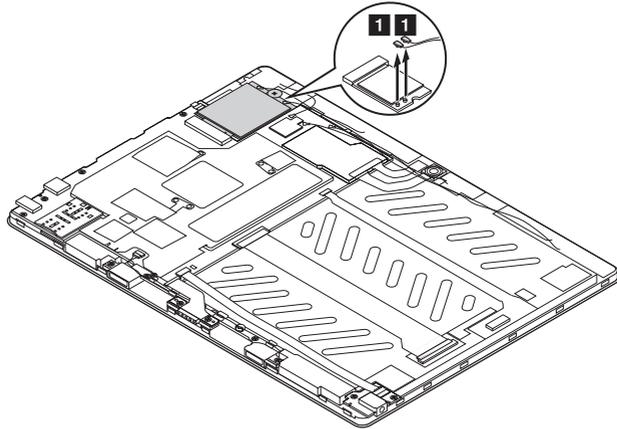
- “1010 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33
- “1030 Tablet cover” on page 34
- “1040 Battery pack” on page 38

**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 3 “Parts list—Overall” on page 53 for Lenovo part numbers for the approved modules.

*Figure 5. Removal steps of PCI Express Mini Card for wireless LAN*

Unplug the LTE antenna connectors (blue, orange) in the directions shown by arrows ■.



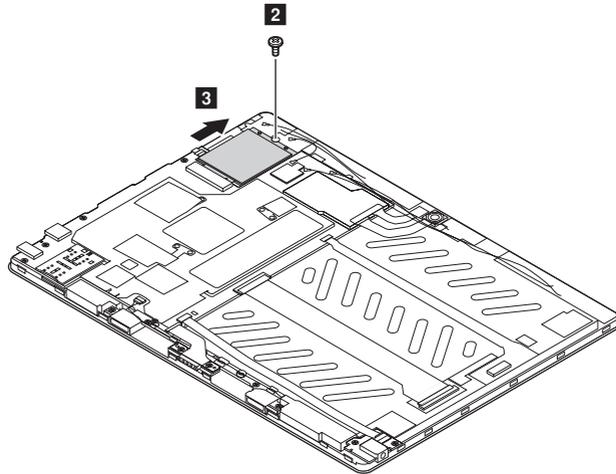
**Note:**

In step ■, 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 the arrows.

Figure 5. Removal steps of PCI Express Mini Card for wireless LAN (continued)

Remove the screw **2**. Then remove the card in the direction shown by arrow **3**.

Step	Screw (quantity)	Color
<b>2</b>	M2.0*2mm_0.5mm_5mm, Phillips-head (1)	Black



**When installing:**

- In models that has two antenna connectors, plug the orange cable (1st) into the jack labeled **MAIN**, and the blue cable (2nd) into the jack labeled **AUX** on the card.
- Make sure that the connectors are attached firmly and that you do not pinch the antenna cables when you attach the LCD assembly.

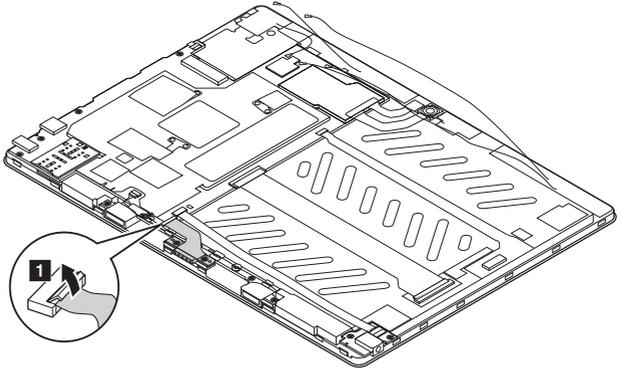
## 1060 Pogo pin

For access, remove these FRUs in order:

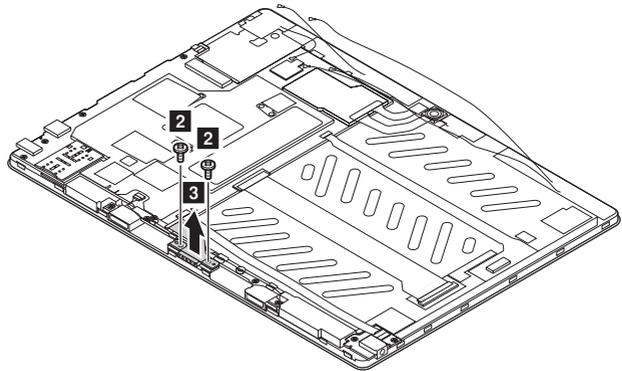
- “1030 Tablet cover” on page 34
- “1040 Battery pack” on page 38
- “1050 PCI Express Mini Card for wireless LAN” on page 40
- “1040 Battery pack” on page 38
- “1050 PCI Express Mini Card for wireless LAN” on page 40

*Figure 4. Removal steps of pogo pin*

Disconnect the pogo pin connector in the direction shown by arrow **1**.



Remove the screws **2**. Then remove the pogo pin in the direction shown by arrow **3**.



Step	Screw (quantity)	Color
<b>2</b>	M2.0*L3.0*D3.5*T0.5*3mm_0.5mm_2mm, Phillips-head (2)	Silver

## 1070 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.
- During 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 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33
- “1030 Tablet cover” on page 34
- “1040 Battery pack” on page 38
- “1050 PCI Express Mini Card for wireless LAN” on page 40
- “1060 Pogo pin” on page 42

*Figure 7. Removal steps of system board*

Tear off the metal cloth tape in the directions shown by arrows **1**.

Remove the cover in the direction shown by arrow **2**. Unplug the Wi-Fi antenna cables in the directions shown by arrows **3**.

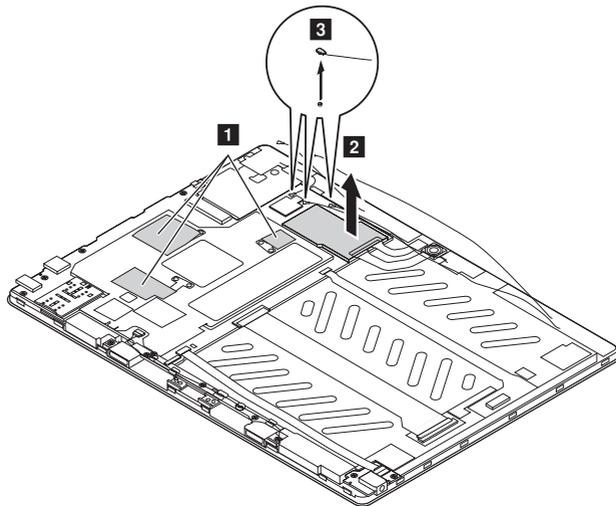
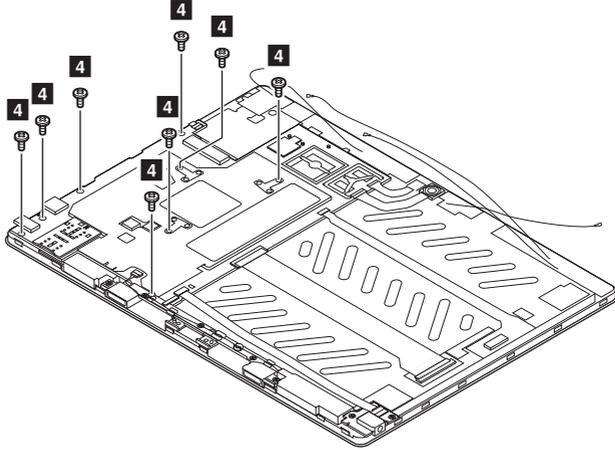


Figure 7. Removal steps of system board (continued)

Remove the screws **4**.



Step	Screw (quantity)	Color
<b>4</b>	M2.0*L3.0*D3.5*T0.5*3mm_0.5mm_2mm, Phillips-head (8)	Silver

Remove the thermal module in the direction shown by arrow **5**.

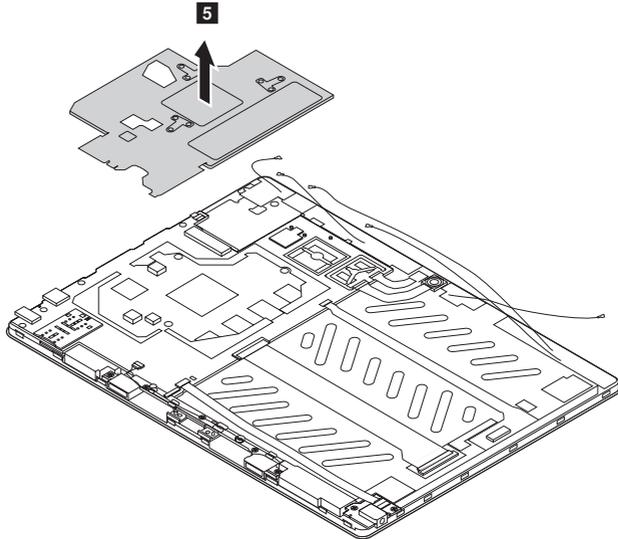
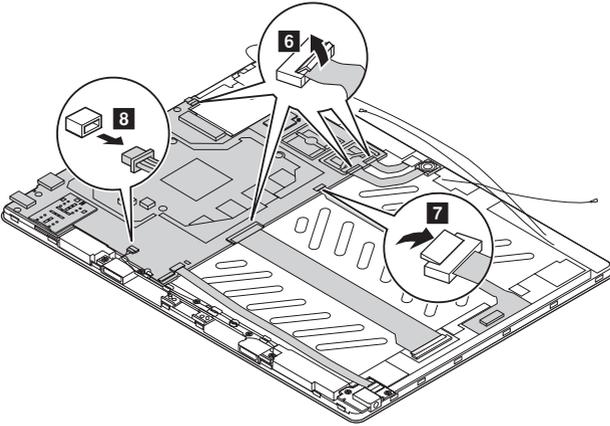
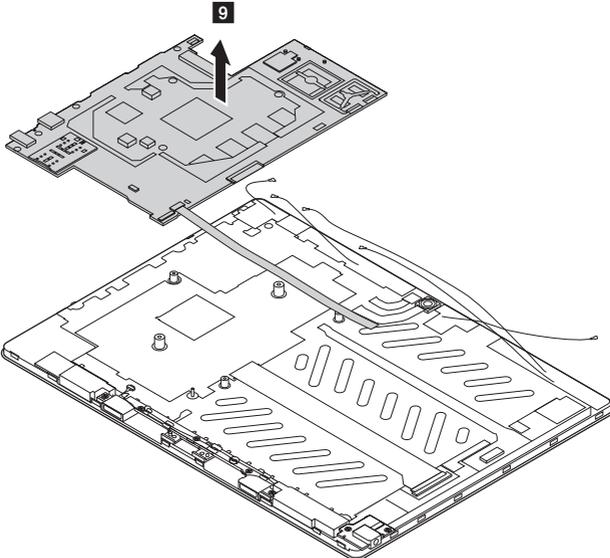


Figure 7. Removal steps of system board (continued)

Disconnect the connectors in the directions shown by arrows 6 to 8.



Remove the system board in the direction shown by arrow 9.



**When installing:**

Make sure that the connectors are attached firmly and that you do not pinch the antenna cables when you attach the LCD assembly.

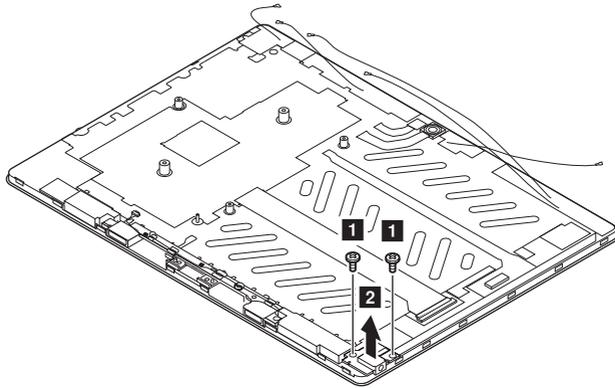
## 1080 Audio card

For access, remove these FRUs in order:

- “1010 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33
- “1030 Tablet cover” on page 34
- “1040 Battery pack” on page 38
- “1050 PCI Express Mini Card for wireless LAN” on page 40
- “1060 Pogo pin” on page 42
- “1070 System board” on page 43

*Figure 8. Removal steps of audio card*

Remove the screws **■**. Then remove the audio card in the direction shown by arrow **2**.



Step	Screw (quantity)	Color
■	M2.0*L3.0*D3.5*T0.5*3mm_0.5mm_2mm, Phillips-head (2)	Silver

## 1090 Speakers, front and rear cameras, power button FPC and LCD cable

For access, remove these FRUs in order:

- “1010 Tablet” on page 32
- “1020 Nano-SIM-card and microSD card tray” on page 33
- “1030 Tablet cover” on page 34
- “1040 Battery pack” on page 38
- “1050 PCI Express Mini Card for wireless LAN” on page 40
- “1060 Pogo pin” on page 42
- “1070 System board” on page 43
- “1080 Rubber foot” on page 46

*Figure 9. Removal steps of Speakers, front and rear cameras, and LCD cable*

Remove the speakers, the front and rear cameras, and power button FPC in the directions by arrows **1**, **2**, **3** and **4**.

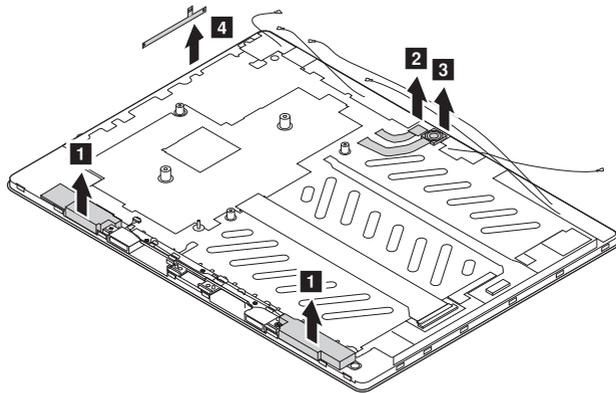
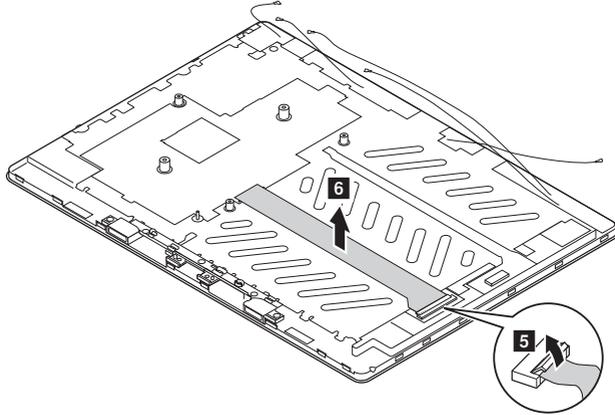


Figure 9. Removal steps of Speakers, front and rear cameras, and LCD cable (continued)

Disconnect the LCD cable connector in the direction shown by arrow **5**. Then remove the LCD cable in the direction shown by arrow **6**.

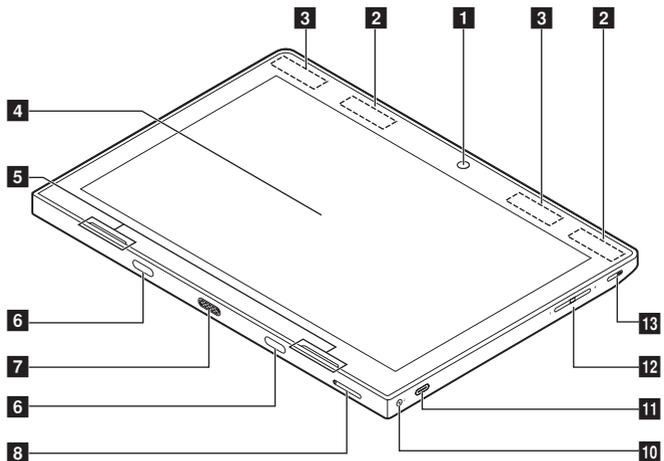


**When installing:** Make sure that the connectors are attached firmly.

## Locations

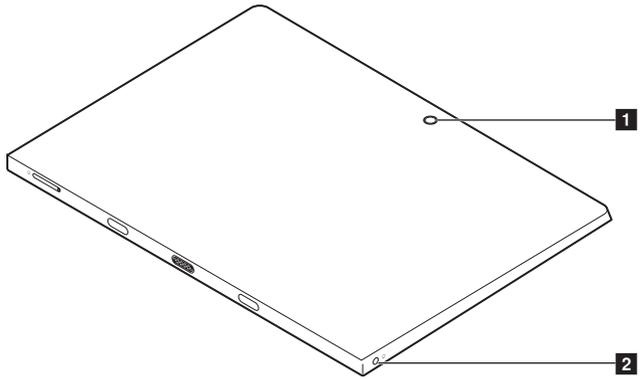
### Front and right-side view of tablet

- 1 Front camera
- 2 Wireless LAN antennas
- 3 Wireless WAN antennas (on select models)
- 4 Multi-touch screen
- 5 Speaker
- 6 Tablet-keyboard dock latch
- 7 Keyboard dock connector
- 8 Nano-SIM-card and microSD card tray
- 10 AC power adapter jack
- 11 Type-C port
- 12 Volume up/down button
- 13 Power button



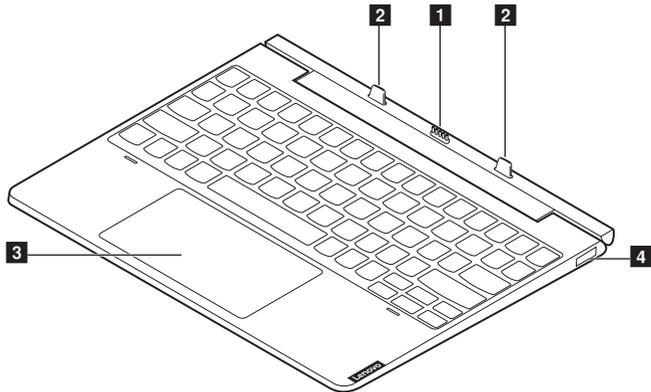
### Bottom and left-side view of tablet

- Rear camera (on select models)
- Combo audio jack



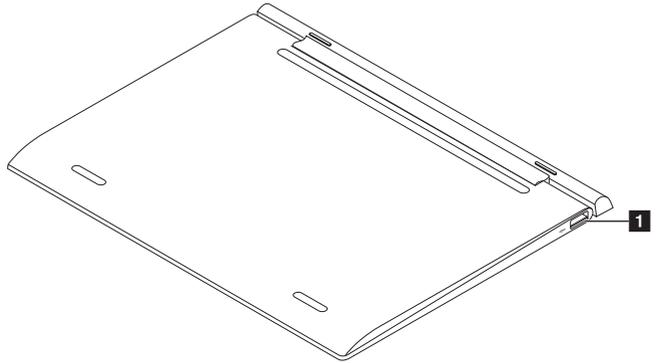
### Front and right-side view of keyboard dock

- Tablet-keyboard dock latch
- Keyboard dock connector
- Touch pad
- USB 2.0 port



### Bottom and left-side view of keyboard dock

- USB 2.0 port



## Parts list

This section presents the following service parts:

- “Overall” on page 53
- “Miscellaneous parts” on page 57
- “AC adapters” on page 57
- “Screws” on page 58

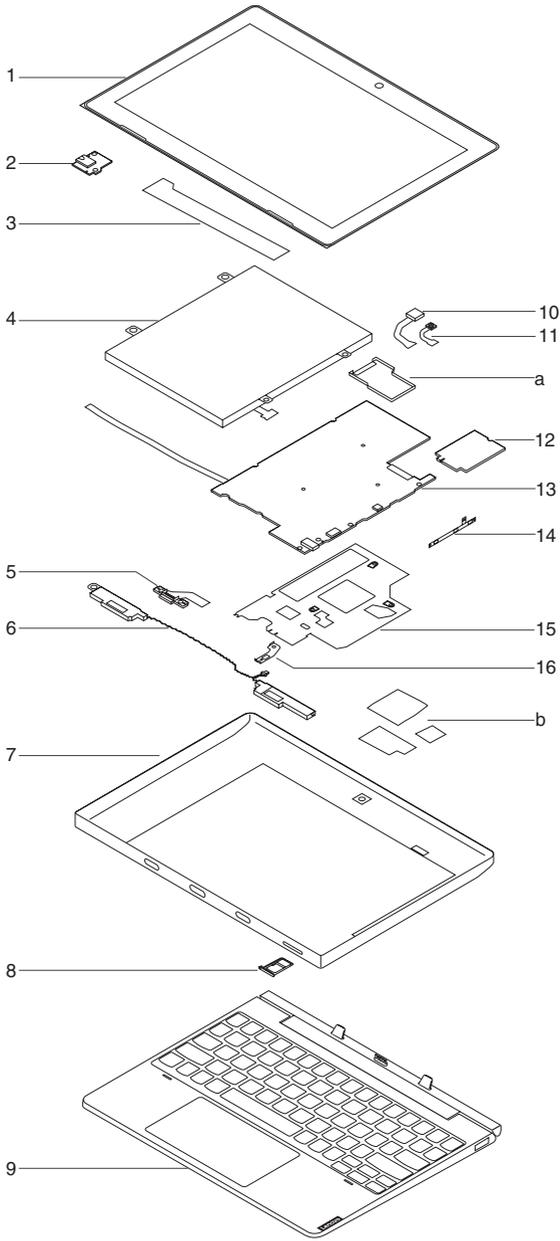
**Note:**

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

**Attention:**

**Do not attempt to replace an FRU on your own. If an FRU is damaged, contact a Lenovo authorized servicer or a marketing representative for replacement or repair. Only qualified technicians can inspect or repair this product.**

Overall



**Table 3. Parts list—Overall**

No.	FRU	FRU no.	CRU ID.
1	LCD MODULE H 81H3 10 FHD wifi	5D10R54664	N
1	LCD MODULE H 81H3 10 HD wifi	5D10R54672	
1	LCD MODULE H 81H3 10 FHD LTE	5D10R54712	
1	LCD MODULE H 81H3 10 HD LTE	5D10R54716	
2	Audio board H 81H3 W/FFC	5A50R54660	
3	LCD Cable H 81H3 FHD	5C10R54714	
3	LCD Cable H 81H3 HD	5C10R54679	
4	SP/A L17M2PF3 7.68V39Wh2cell	5B10Q93737	
4	SD/A L17D2PF2 7.68V39Wh2cell	5B10Q93736	
4	CP/C L17C2PF1 7.7V39Wh2cell	5B10Q93738	
5	Pogo Pin FPC H 81H3	5C10R54681	
6	Speaker H 81H3 L+R	5SB0R54675	
7	LCD Cover H 81H3 MGR 2M	5CB0R54709	
7	LCD Cover H 81H3 MGR 2M/5M	5CB0R54698	
7	LCD Cover H 81H3 BZ 2M/5M	5CB0R54695	
7	LCD Cover H 81H3 BZ 2M	5CB0R54692	
8	Card Tray TF&SIM BZ H 81H3	5M20S13638	
8	Card Tray TF only MGR H 81H3	5M20S13640	
8	Card Tray TF only BZ H 81H3	5M20S13642	
8	Card Tray TF&SIM MGR H 81H3	5M20R54686	
9	D330 docking MGR TC	5D20R49356	
9	D330 docking MGR UKE	5D20R49389	
9	D330 docking BZ JPN	5D20R49334	
9	D330 docking BZ SPA	5D20R49333	
9	D330 docking BZ BEL	5D20R49352	
9	D330 docking MGR UKR	5D20R49383	
9	D330 docking BZ SWS	5D20R49351	
9	D330 docking MGR GER	5D20R49382	
9	D330 docking BZ LA SPA	5D20R49350	
9	D330 docking BZ SLV	5D20R49381	
9	D330 docking BZ HUN	5D20R49370	
9	D330 docking BZ THAI	5D20R49369	
9	D330 docking MGR JPN	5D20R49347	
9	D330 docking BZ CZE/SLK	5D20R49368	
9	D330 docking MGR SWS	5D20R49346	
9	D330 docking MGR HBW	5D20R49377	
9	D330 docking BZ EURO ENG	5D20R49345	
9	D330 docking MGR ARA	5D20R49365	
9	D330 docking BZ POR	5D20R49376	
9	D330 docking MGR SPA	5D20R49364	
9	D330 docking MGR CZE/SLK	5D20R49342	
9	D330 docking MGR LA	5D20R49363	
9	D330 docking BZ ENG	5D20R49341	
9	D330 docking BZ GER	5D20R49340	
9	D330 docking BZ FRA/ARA	5D20R49360	
9	D330 docking MGR KOR	5D20R49359	
9	D330 docking BZ TUR	5D20R49358	
			*

Table 3. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	
9	D330 docking MGR GRE	5D20R49337	*	
9	D330 docking BZ RUS	5D20R49336		
9	D330 docking MGR FRA ENG	5D20R49385		
9	D330 docking BZ TC	5D20R49335		
9	D330 docking MGR EURO ENG	5D20R49384		
9	D330 docking MGR NORDIC	5D20R49372		
9	D330 docking MGR HIN	5D20R49371		
9	D330 docking MGR FRA	5D20R49355		
9	D330 docking BZ FRA	5D20R49354		
9	D330 docking MGR THAI	5D20R49353		
9	D330 docking BZ KOR	5D20R49332		
9	D330 docking BZ ARA	5D20R49349		
9	D330 docking BZ BUL	5D20R49388		
9	D330 docking MGR BEL	5D20R49348		
9	D330 docking MGR FRA/ARA	5D20R49387		
9	D330 docking BZ FRA ENG	5D20R49386		
9	D330 docking MGR POR	5D20R49380		
9	D330 docking BZ HIN	5D20R49379		
9	D330 docking BZ HBW	5D20R49378		
9	D330 docking MGR ENG	5D20R49367		
9	D330 docking MGR SLV	5D20R49366		
9	D330 docking MGR RUS	5D20R49344		
9	D330 docking MGR BUL	5D20R49343		
9	D330 docking BZ UKR	5D20R49362		
9	D330 docking BZ UKE	5D20R49375		
9	D330 docking BZ NORDIC	5D20R49361		
9	D330 docking BZ ITA	5D20R49339		
9	D330 docking BZ GRE	5D20R49374		
9	D330 docking MGR ITA	5D20R49338		
9	D330 docking MGR TUR	5D20R49373		
9	D330 docking MGR HUN	5D20R49357		
9	Rubber Foot H 81H3	5F40R54656		N
10	CAMERA H 81H3 5M	5C20R54658		
11	CAMERA H 81H3 2M	5C20R54697		
12	LTE Module H 81H3 L830	5W10R54710		
12	LTE Module H 81H3 L850	5W10R54700		
12	Wireless,WAN,FBC,L830-EB	01AX761		
13	MBH81H3N400064G4GW1X12M/5MPD	5B20R54706		
13	MBH81H3N4000128G4GW1X12MPD	5B20R54703		
13	MBH81H3N400032G4GW1X1LTE2M/5MPD	5B20S56652		
13	MBH81H3N400032G4GW1X12M/5MPD	5B20S56653		
13	MBH81H3N400032G4GW1X1LTE2M/5M	5B20S56654		
13	MBH81H3N400032G4GW1X12M	5B20S56655		
13	MBH81H3N400064G4GW1X12M/5M	5B20R54668		
13	MBH81H3N4000128G4GW1X12M/5M	5B20R54667		
13	MBH81H3N4000128G4GW1X12M/5MPD	5B20R54662		
13	MBH81H3N5000128G4GW2X2LTE2M/5M	5B20R54676		

**Table 3. Parts list—Overall (continued)**

No.	FRU	FRU no.	CRU ID.
13	MB H81H3N5000128G4GW2X22M	5B20R54661	N
13	MB H81H3N400032G2GW1X1LTE2M	5B20R54674	
13	MB H 81H3 N4000 128G 4GW1X12M	5B20R54659	
13	MBH81H3N500064G4GW1X12MPD	5B20R61006	
13	MB81H3N400032G2GW1X1LTE2M/5MPD	5B20R54694	
13	MBH81H3N500064G4GW1X12M	5B20R61005	
13	MB H81H3N400064G4GW1X1LTE2M	5B20R54693	
13	MBH81H3N400032G2GW1X12M/5M	5B20R54688	
13	MB H81H3N5000128G4GW2X2LTE2M	5B20R54687	
13	MBH81H3N400032G2GW1X1LTE2M/5M	5B20R54713	
13	MBH81H3N500064G4GW1X12M/5MPD	5B20R61001	
13	MBH81H3N400032G2GW1X12M/5MPD	5B20R54711	
13	MB81H3N5000128G4GW2X2LTE2M5MPD	5B20R54707	
13	MBH81H3N500064G4GW1X1LTE2MPD	5B20R61002	
13	MBH81H3N4000128G4GW1X1LTE2M	5B20R54680	
13	MBH81H3N400064G4GW1X1LTE2M/5M	5B20R54677	
13	MBH81H3N400032G4GW1X12MPD	5B20S56648	
13	MBH81H3N400032G4GW1X1LTE2MPD	5B20S56649	
13	MBH81H3N5000128G4GW2X22M/5MPD	5B20R54665	
13	MBH81H3N400064G4GW1X12MPD	5B20R54701	
13	MBH81H3N5000128G4GW2X22M/5M	5B20R54663	
13	MBH81H3N4000128G4GW1X1LTE2MPD	5B20R54670	
13	MB81H3N4000128G4GW1X1LTE2M5MPD	5B20R54699	
13	MBH81H3N5000128G4GW2X22MPD	5B20R54669	
13	MB H 81H3 N4000 32G 2G W1X1 2M	5B20R54696	
13	MBH81H3N500064G4G W1X1LTE2M/5M	5B20R61007	
13	MB81H3N400064G4GW1X1LTE2M/5MPD	5B20R54691	
13	MBH81H3N400032G4GW1X12M/5M	5B20S56650	
13	MBH81H3N400032G4GW1X1LTE2M	5B20S56651	
13	MBH81H3N5000128G4GW2X2LTE2MPD	5B20R54690	
13	MBH81H3N500064G4GW1X1LTE2M/5MPD	5B20R61004	
13	MBH81H3N500064G4GW1X12M/5M	5B20R61003	
13	MBH81H3N4000128G4GW1X1LTE2M/5M	5B20R54689	
13	MBH81H3N400032G2GW1X12MPD	5B20R54715	
13	MB H81H3N400064G4GW1X12M	5B20R54684	
13	MBH81H3N500064G4GW1X1LTE2M	5B20R61000	
13	MBH81H3N400032G2GW1X1LTE2MPD	5B20R54683	
13	MBH81H3N400064G4GW1X1LTE2MPD	5B20R54682	
14	Power Button FPC H 81H3	5C10R54671	
15	Thermal module H 81H3	5H40R54708	
16	BATTERY CONNETOR BRACKT H 81H3	5B40R54678	

## Miscellaneous parts

Table 4. Parts list—Miscellaneous parts

FRU	FRU no.	CRU ID.
System miscellaneous parts:		
SHIELDCAMERA_ECshieldingH81H3	• (a)5S60R54666	N
Sponge 12*12*0.05 81H3	• (b)5T10R54685	
Sponge 28*16*0.05 81H3	• (b)5T10S13641	
Sponge 24*24*0.05 81H3	• (b)5T10S13639	
<b>Note:</b> Letters in parentheses are references to the exploded view in "Overall" on page 53.		

## AC adapters

Table 5. Parts list—AC adapters

FRU	P/N	CRU ID.
PA-1450-55LR 20V2.25A COO	01FR122	*
ADL45WCK 20V2.25A COO	01FR130	
PA-1450-55LS 20V2.25A COO	01FR123	
ADP-45DW J 20V2.25A COO	01FR110	
PA-1450-55LK 20V2.25A COO	01FR036	
ADL45WCE 20V2.25A COO	01FR131	
PA-1450-55LI 20V2.25A COO	01FR121	
ADP-45DW E 20V2.25A COO	01FR115	
ADP-45DW G 20V2.25A COO	01FR114	
ADL45WCC 20V2.25A COO	01FR128	
ADP-45DW B 20V2.25A COO	01FR111	
PA-1450-55LL 20V2.25A COO	01FR120	
ADP-45DW H 20V2.25A COO	01FR113	
ADL45WCA 20V2.25A COO	01FR126	
PD,45W,20/15/9/5V,3P,WW,LTN	00HM663	
PA-1450-55LN 20V2.25A COO	01FR118	
PD,45W,20/15/9/5V,3P,WW,CHY	00HM665	
ADP-45DW A 20V2.25A COO	01FR109	
ADL45WCD 20V2.25A COO	01FR129	
ADL45WCG 20V2.25A COO	01FR133	
ADP-45DW C 20V2.25A COO	01FR116	
ADP-45DW D 20V2.25A COO	01FR112	
ADL45WCF 20V2.25A COO	01FR132	
PA-1450-55LU 20V2.25A COO	01FR124	
PA-1450-55LG 20V2.25A COO	01FR119	
ADL45WCB 20V2.25A COO	01FR127	
VOLEX VAC5S+VCTF+M755 1m cord	145000530	
Longwell LP-61L+H03VV-F+LS-18 1m cord	145000561	
Longwell LP-37+H03VV-F+LS-18 1m cord	145000565	
VOLEX M2511+KETI IEC+VAC5S 1m cord	145000533	

**Table 5. Parts list—AC adapters (continued)**

FRU	P/N	CRU ID.
VOLEX AU10S3+H03VV-F+VAC5S 1m cord	145000532	*
VOLEX GB10S3+RVV 300/500+VAC5S 1m cord	145000538	
Longwell LP-30B+SPT-2 18AWG+LS-181mcord	145000562	
VOLEX MP5004+H03VV-F+VAC5S 1m cord	145000605	
Longwell LP-41+H03VV-F+LS-18 1m cord	145000563	
VOLEX VA2073+H03VV-F+VAC5S 1m cord	145000528	
Longwell LP-54+VCTF+LS-18 1m cord	145000555	
VOLEX SI16S3+H03VV-F+VAC5S 1m cord	145000526	
Longwell LP-67+BIS+LS-18 1m cord	145000560	
Longwell LP-34A+H03VV-F+LS-18 1m cord	145000553	
Longwell LP-39+H03VV-F+LS-18 1m cord	145000554	
Longwell LP-24+H03VV-F+LS-18 1m cord	145000567	
Longwell LP-486+KTLH03VV-F+LS-5 1m cord	145000558	
Longwell LSG-31+RVV300/300+LS-18 1mcord	145000568	
VOLEX M2511+HO3VV-F+VAC5S 1m cord	145000525	
Longwell LP-22+H03VV-F+LS-18 1m cord	145000559	
Longwell LP-23A+LFC-3R+LS-18 1m cord	145000557	
VOLEX MP232+H03VV-F+VAC5S 1m cord	145000524	
VOLEX IT10S3+H03VV-F+VAC5S 1m cord	145000535	
Volex US15S3+SPT-2 3 ?VAC5S 1m cord	145000537	
lux 0033+H03VV-F 0.75/3C+0011 1m cord	145500008	
Fru, LINECORD,TW,1M,3P,NON-LH	01YW107	
lux 0031+H03VV-F 0.75/3C+0011 1m cord	145500000	
lux 0033+H03VV-F 0.75/3C+0011 1m cord	145500001	
lux 0041+H03VV-F 0.75/3C+0011 1m cord	145500012	
lux 0014+SPT-2 60°C 18/3C+0016 1m cord	145500002	
lux 0018(E)+VCTF 0.75/3C+0021 1m cord	145500005	
Fru, LINECORD,TW,1M,3P,NON-LH	01YW105	
lux 0027+H03VV-F 0.75/3C+0011 1m cord	145500013	
lux 0014+H03VV-F 0.75/3C+0011	5L60J33143	
lux 0038+H03VV-F 0.75/3C+0011 1m cord	145500006	
lux0036+RVV 300/300 0.75/3C+0002 1mcord	145500003	
lux 0040+H03VV-F 0.75/3C+0011 1m cord	145500015	
Fru, LINECORD,TW,1M,3P,NON-LH	01YW103	
lux 0044+H03VV-F 0.75/3C+0011 1m cord	145500010	
lux 0046+IS694 0.75/3C+0011 1m cord	145500004	
lux 0029+H03VV-F 0.75/3C+0011 1m cord	145500009	

## Screws

**Table 6. Parts list—screws**

FRU	P/N	CRU ID.
Screw pack H 81H3	5S10R54704	N

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