

**lenovo**

# *Lenovo Miix 2 11*

*Hardware  
Maintenance  
Manual*



**Note:**

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 64.

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## About this manual

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

**Lenovo Miix 2 11**

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 Miix 2 11 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

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## General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
  1. Make sure that you can stand safely without slipping.
  2. Distribute the weight of the object equally between your feet.
  3. Use a slow lifting force. Never move suddenly or twist when you attempt to lift it.
  4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Place removed covers and other parts in a safe place, keeping them away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip it over.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure that your sleeves are fastened or rolled up above your elbows. If your hair is long, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.  
**Attention:** Metal objects are good electrical conductors.
- Wear safety glasses when you are hammering, drilling, soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that may be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reinstall all covers correctly before returning the machine to the customer.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

## Electrical safety

Observe the following rules when working on electrical equipments.

### Important:

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

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

- Find the room emergency power-off (EPO) switch, disconnecting the switch or electrical outlet. If an electrical accident occurs, you can then operate the switch or unplug the power cord quickly.
- Do not work alone under hazardous conditions or near the equipment that has hazardous voltages.
- Disconnect all power before:
  - Performing a mechanical inspection
  - Working near power supplies
  - Removing or installing main units
- Before you start to work on the machine, unplug the power cord. If you cannot unplug it, ask the customer to power-off the wall box that supplies power to the machine, and to lock the wall box in the off position.
- If you need to work on a machine that has exposed electrical circuits, observe the following precautions:
  - Ensure that another person, familiar with the power-off controls, is near you.

**Attention:** Another person must be there to switch off the power, if necessary.

- Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.

**Attention:** An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.

- When using testers, set the controls correctly and use the approved probe leads and accessories for that tester.
- Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

Observe the special safety precautions when you work with very high voltages; instructions for these precautions are in the safety sections of maintenance information. Be extremely careful when you measure the high voltages.

- Regularly inspect and maintain your electrical hand tools for safe operational condition.
- Do not use worn or broken tools and testers.
- Never assume that power has been disconnected from a circuit. First, check it to make sure that it has been powered off.

- Always look carefully for possible hazards in your work area. Examples of these hazards are moist floors, nongrounded power extension cables, power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. The surface is conductive; such touching can cause personal injury and machine damage.
- Do not service the following parts with the power on when they are removed from their normal operating places in a machine:
  - Power supply units
  - Pumps
  - Blowers and fans
  - Motor 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, והלולים קיימים ואינם נמצאים  
בפרקם ולא מושמעו בוון המחשב. יד לרווחא  
אתה, ש, לא לילך את מוחשב להתקשו לילוי קרות שיקוש.  
חלי או שבוי מותכת עלילם נלאה לקרים חמילים.

Prima di accendere l'elaboratore dopo che è 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'explorer.

Die Bereitschaftsbatterie, die sich unter dem Diskettenlaufwerk befindet, kann geringe Mengen Nickel und Cadmium enthalten. Sie darf nicht zerlegt, wiederaufgeladen, kurgeschlossen, 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.

טלולות המותגה מסוימות מכליות כבאות קענים  
של גזים מודרניים. אונטרכר טולולות הרהוטה,  
לטעון או לזרום מודרני. להשליך או לאחסן או  
לזרום או לזרום ולהזמין. יש לשליך את הטולולה  
בדריש לעזיז התיקונות והוחוקם המתקיימים. יש  
להשתמש רק בסוללה מומומיעת בושינית החלקיים  
המוגדרת. ישמש סוללה אקסטרנה או מזנינה עליל  
לגורום להזינה או הטעינה על 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。適切なバッテリー・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  
ומדיום. אין לפולק או פגוז סוללה. להשליך  
אתו לאש או מים או לבלצ' אותו. ש. סלולר את  
מארז הסוללה בטלוליה כדרישת החוק  
והתקנות המקומיים. יש להשמיש רק סולולות  
הומולוגות בתקנים תחתון. יש להשמיש רק סולולות  
תאזרחיות. שימוש סולולות לא מתוארכות עלל  
לגורום להנחתה או חבצצות של הסוללה.

La batteria contiene piccole quantità di nichel. Non smontarla, gettarla nel fuoco o nell'acqua né cortocircuitarla. Smaltrala 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.

パッテリー・パックには少量のニッケルが含まれています。パッテリー・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。パッテリー・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。パッテリー・パックを交換するときは、適切なパーツ。リストにあるパッテリーだけを使用してください。誤ったパッテリーを使用すると、パ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 Systembatterie ist eine Lithiumbatterie. Sie kann sich entzünden, explodieren oder schwere Verbrennungen hervorrufen. Batterien dieses Typs dürfen nicht aufgeladen, zerlegt, über 100 C erhitzt oder verbrannt werden. Auch darf ihr Inhalt nicht mit Wasser in Verbindung gebracht oder der zur richtigen Polung angebrachte Verbindungsstecker entfernt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

סוללה לאלחוטים לילול לרום לשירות, להתקנת צוות או למכשירים קשתיים. אין לטבוע אותה או חתחה, לשליך אותה המכוון לשליטה, לשליך אותה או להטמין אותה כלטמברוריה, העורר על עטיפות טלקות. אין לזרוק אותה או השלילה אין לשלוחה אות גזם מהן מלח. ש. ש. לשימוש קר בדרכש בתקנות והתקנים התקומומיים. ש. לשימוש קר בדרכים התקוממיות רשות תחת כל התקוממיים. ש. שימוש בטוויללה אחרית טלי גלובס לאכנת שירפה או חתחנו.

La batteria di supporto e una batteria al litio e può incendiarsi, esplodere o procurare gravi ustioni. Evitare di ricaricarla, smontarne il connettore polarizzato, smontarla, riscalarla ad una temperatura superiore ai 100 gradi centigradi, incenderla 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。バッカアップ・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など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。適切なバーツ・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 הจอ נזול (LCD) שבר והוול מותך המסך באבעע  
עם ליטרים או ליטר, טפל תא אורות מגעיהם פיד מים במשען  
15 דקות לפחות. נס ללבת צורה רפואי. אם סימנים הוגעים  
מהונע עם הנול, מישלים לאחר השיעור.

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

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

Si la LCD se rompe y el fluido de su interior entra en contacto con sus ojos o sus manos, lave inmediatamente las áreas afectadas con agua durante 15 minutos como mínimo. Obtenga atención médica si se presenta algún síntoma del fluido después 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 חשמל מוגבר, אינן להסיר את מסכת הפלסטיק  
המנגעל חלקו החתחתו של כבביטת החפה.

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.

אך שהסוללות הראשיות הן בעלות מתח נמוך, סוללה  
מוקנית או מוגרת עליליה להיפוך ורב מספיק לירויות  
כיווית או להצתת חומרים דלקיים.

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 אותו מכל כבל חשמל, כולל חיצוניים אחד אחד פולילית, או לפחות מכל חיבור אחריהם 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 vezérlésekktől eltérő 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.

Použíteľ konôr, úprav alebo iných vykonaní od iných výrobcov, aké je v tomto špecifikované, môžlo by mať za následok nebezpečenstvo vystavenia sa vyzárovaniu.

本書で指定された内容以外の、お客様による整備、調整、または手順を行つた場合、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 ópticos e evite exposição direta com o feixe de luz.

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

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

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

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

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

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

Ked je laserová jednotka otvorená. Vyhnite sa priamemu pohľadu a nehládte 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
  - “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

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**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 a serial number or select a product or use Lenovo smart downloading.
3. Select the BIOS/Driver/Applications and download.
4. Follow the directions on the screen and install the necessary software.

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

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

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

### **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.
- 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 disc insertion or use of an optical drive
- Diskette drive damage caused by pressure on the diskette drive cover, foreign material in the drive, or the insertion of a diskette with multiple labels
- Damaged or bent diskette eject button
- Fuses blown by attachment of a nonsupported device
- Forgotten computer password (making the computer unusable)
- Sticky keys caused by spilling a liquid onto the keyboard
- Use of an incorrect AC adapter on laptop products

**The following symptoms might indicate damage caused by nonwarranted activities:**

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

## Power system checkout

To verify a symptom, follow the steps below:

1. Turn off the computer.
2. Connect the AC adapter.
3. Make sure that power is supplied when you turn on the computer.
4. Turn off the computer.
5. Disconnect the AC adapter.
6. 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

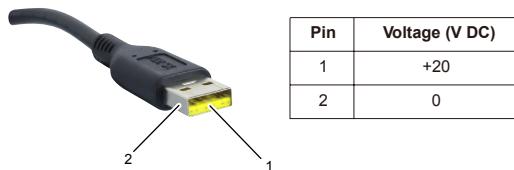
### Checking the AC adapter

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:



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

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

- Replace the system board.
- If the problem continues, go to “Lenovo Miix 2 11” 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.

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## Related service information

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This chapter presents the following information:

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

### **Restoring the factory contents by using the Recovery system**

#### **Restore of factory default**

The Lenovo Miix 2 11 computers come with a pre-installed Recovery system. In order to save application files and the initial backed-up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, just enter the Recovery System (Push-button reset). For details of the Recovery system, see *the User Guide for Recovery system*.

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

## Passwords

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As many as two passwords may be needed for any Lenovo computer: the power-on password (POP) 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.

### 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 two power management modes: screen blank, sleep (standby).

### Screen blank mode

If the time set on the “Turn off monitor” timer in the operating system expires, the LCD backlight turns off.

To end screen blank mode and resume normal operation, press any key.

### Sleep (standby) mode

When the computer enters sleep (standby) mode, the following events occur in addition to what occurs in screen blank mode:

- The LCD is powered off.
- The hard disk drive is powered off.
- The CPU stops.

To enter sleep (standby) mode, To put the computer to sleep, do one of the following:

- Press the power button.
- Open the Charms and then select **Settings** → **Power** → **Sleep**.

In certain circumstances, the computer goes into sleep (standby) mode automatically:

- If a “suspend time” has been set on the timer, and the user does not do any operation with the keyboard, the hard disk, the parallel connector, or the diskette drive within that time.
- If the battery indicator is amber, indicating that the battery power is low.

To cause the computer to return from sleep (standby) mode and resume the operation, do one of the following:

- Press any key on the keyboard (located on the keyboard dock).
- Press the power button.
- Press the Windows button.

Also, in the following event, the computer automatically returns from sleep (standby) mode and resumes the operation:

- The time set on the resume timer elapses.

**Note:** The computer does not accept any input immediately after it enters sleep (standby) mode. Wait a few seconds before taking any action to reenter operation mode.

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## Lenovo Miix 2 11

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

- “Specifications” on page 26
- “Function key combinations” on page 28
- “FRU replacement notices” on page 29
- “Removing and replacing an FRU” on page 30
- “Locations” on page 54
- “Parts list” on page 56

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## Specifications

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The following table lists the specifications of the Lenovo Miix 2 11 :

*Table 1. Specifications*

Feature	Description
Processor	<ul style="list-style-type: none"><li>• To view the system properties of your computer: Open the <b>Control Panel</b>. Then select <b>System</b>.</li></ul>
Display	<ul style="list-style-type: none"><li>• 11.6”,16:9 (1,920 × 1,080 pixels)</li></ul>
Standard memory	<ul style="list-style-type: none"><li>• DDR3L 1,600 Mhz (max 8 GB)</li></ul>
Storage	<ul style="list-style-type: none"><li>• 64 GB, 128 GB, 256 GB, etc. mSATA</li></ul>
I/O port	<ul style="list-style-type: none"><li>• Micro HDMI port × 1</li><li>• Micro SD card slot × 1</li><li>• Micro SIM card slot × 1 (on select models)</li><li>• Keyboard dock (on select models): USB 2.0 port × 2</li></ul>
Audio	<ul style="list-style-type: none"><li>• Combo audio jack × 1</li></ul>
Integrated camera	<ul style="list-style-type: none"><li>• 2.0 MP (front camera), 5.0 MP (rear camera)</li></ul>
Battery	<ul style="list-style-type: none"><li>• 36 Wh, Polymer</li></ul>
AC adapter	<ul style="list-style-type: none"><li>• 20 V, 40 W</li></ul>
Pre-installed operating system	<ul style="list-style-type: none"><li>• Win 8.1</li></ul>

## Status indicators

The system status indicators below show the computer status:



*Table 2. Status indicators*

Indicator	Indicator status	Charge status	Meaning
Battery status indicator	On (white)	Charging Discharging	The battery's charge is greater than 80%. The battery's charge is greater than 20%.
	On (amber)	Discharging	The battery's charge is less than 20%, but above 5%.
	Blinking slowly (white)	Charging	The battery's charge is less than 80%, but above 20%.
	Blinking (amber)	Charging	The battery's charge is less than 20%, but above 5%.
	Blinking quickly (amber)	Discharging/ Charging	The battery's charge is less than 5%.
	Off	--	The computer is off.

## Function key combinations

The following table shows the function of each combination of function key.

*Table 3. Fn key combinations (on select models)*

Fn + Esc :	Mutes/unmutes the sound.
Fn + ` :	Closes the currently active window.
Fn + Delete :	Enables/disables the touchpad.
Fn + Backspace :	Enables/disables Airplane mode.
Fn + PgUp :	Activates the home key function.
Fn + PgDn :	Activates the end key function.
Fn + ▲ :	Increases the display brightness.
Fn + ▼ :	Decreases the display brightness.
Fn + ◀:	Decreases the volume level.
Fn + ▶:	Increases the volume level.

## 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.

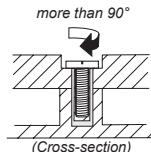
Do the following when you service this machine:

- 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:

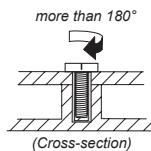
- **Plastic to plastic**

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 29.
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 54.
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, and then disconnect any of the interconnecting cables.

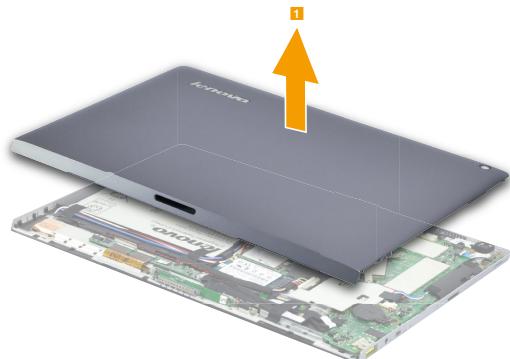
**Attention:** After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes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

*Figure 1. Removal step of LCD cover*

Carefully separate the LCD cover from the rest of the tablet with a pry bar, then remove it in the direction shown by arrow ■.



## Note: Applying labels to the LCD cover

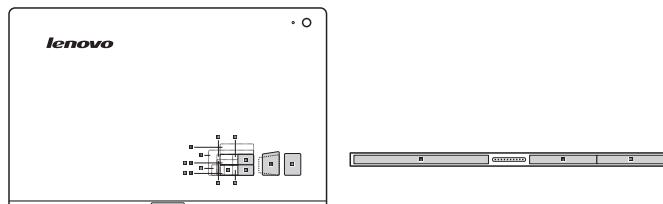
The new LCD cover FRU is shipped with a kit containing labels of several kinds. When you replace the LCD cover, you need to apply the following labels:

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

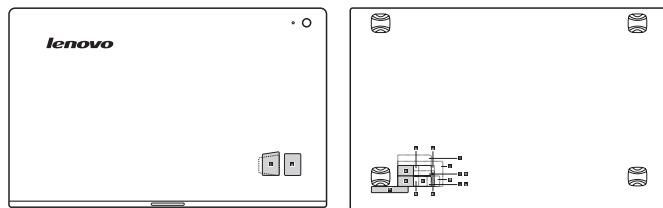
- a** Malaysia label
- b** South Africa label
- c** AUS/EMEA label
- d** Indonesia label
- e** Brazil label
- f** Korea label
- g** India label
- h** Israel label
- i** US/CA/TW label
- j** Windows 8 label
- k** Intel label
- l** Rating label
- m** Blank label
- n** SYS Barcode label

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

### Tablet only



### Tablet + Keyboard dock



## 1020 Volume board and power board

For access, remove this FRU:

- “1010 LCD cover” on page 31

*Figure 2. Removal steps of volume board and power board*

Detach the two connectors in the directions shown by arrows **1** and **2**. Remove the screws **3**.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M2.0 × 3.0, flat-head, nylok-coated, PCB ASM (4)	Black	1.6~2 kgf*cm

Remove the volume board and the power board in the direction shown by arrows **4**.



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

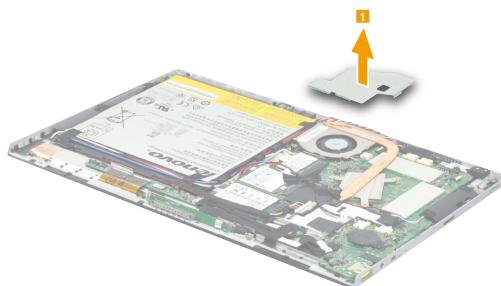
## 1030 Docking transfer board

For access, remove these FRUs in order:

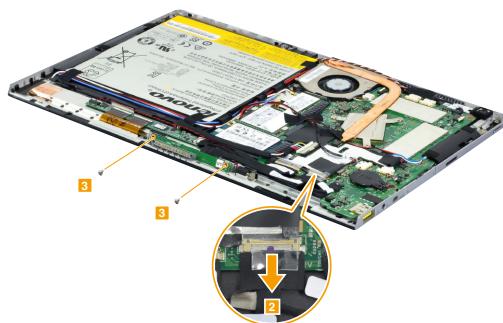
- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33

*Figure 3. Removal steps of docking transfer board*

Remove the shield cover **1**.



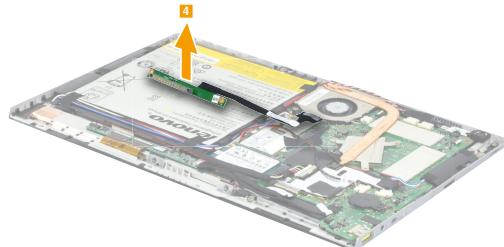
Detach the connector in the direction shown by arrow **2**, then remove the two screws **3**.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M2.0 × 3.0, flat-head, nylok-coated, Pogo Pin ASM (2)	Black	1.6~2 kgf*cm

*Figure 3. Removal steps of docking transfer board (continued)*

Remove the docking transfer board in the direction shown by arrow 4.



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

## 1040 Touch control board, LCD cable and vibrator

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34

*Figure 4. Removal steps of touch control board, LCD cable and vibrator*

Disconnect the connectors in the directions shown by arrows **1** and **2**.



Remove the touch control board **3**.

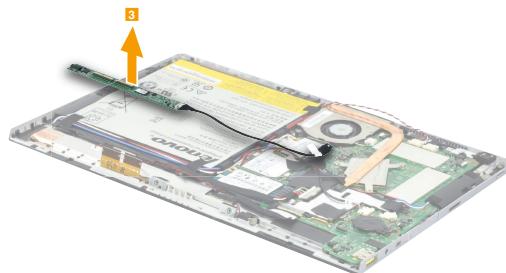
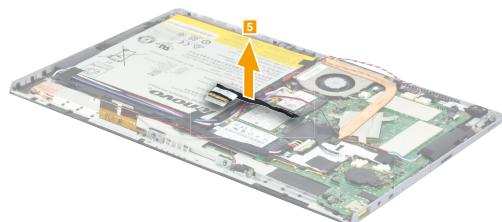


Figure 4. Removal steps of touch control board, LCD cable and vibrator (continued)

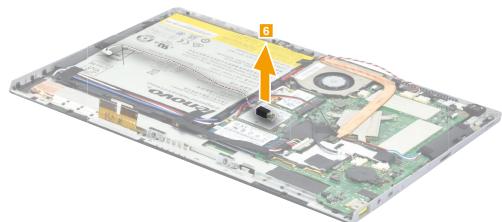
Peel off the adhesive tape and detach the connectors in the directions shown by arrows **4**.



Remove the LCD cable **5**.



Remove the vibrator **6**.



## 1050 Solid State Disk (SSD)

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36

*Figure 5. Removal steps of Solid State Disk (SSD)*

Remove the screw ■.



Step	Screw (quantity)	Color	Torque
■	M1.6 × 2.0, flat-head, nylok-coated, Card & Thermal ASM (1)	Silver	1.6~2 kgf*cm

Remove the Solid State Disk (SSD) in the direction shown by arrow 2.



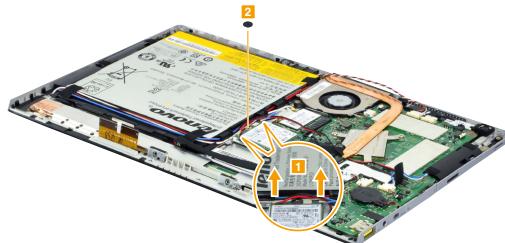
## 1060 Wireless WAN card (on select models)

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38

*Figure 6. Removal steps of wireless WAN card (on select models)*

Disconnect the two wireless WAN card cables (blue, red) ■. Then remove the screw 2.



Step	Screw (quantity)	Color	Torque
2	M2.0 × 2.0, flat-head, nylok-coated, Card & Thermal ASM (1)	Black	1.6~2 kgf*cm

In step ■, unplug the jacks by using the removal tool antenna RF connector (P/N: 51078891), or pick up the connectors with your fingers and gently unplug them in the direction shown by the arrows.

### When installing:

- In models with a wireless WAN card that has two antenna connectors, plug the red cable (1st) (MAIN) into the jack labeled **MAIN**, and the blue cable (2nd) (AUX) into the jack labeled **AUX** on the card.

Remove the wireless WAN card in the direction shown by arrow 3.



## 1070 Wireless LAN card

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39

*Figure 7. Removal steps of wireless LAN card*

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



Step	Screw (quantity)	Color	Torque
2	M1.6 × 2, flat-head, nylok-coated, Card & Thermal ASM (1)	Silver	1.6~2 kgf*cm

In step ■, unplug the jacks by using the removal tool antenna RF connector (P/N: 51078891), or pick up the connectors with your fingers and gently unplug them in the direction shown by the arrows.

### When installing:

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

Remove the wireless LAN card in the direction shown by arrow 3.



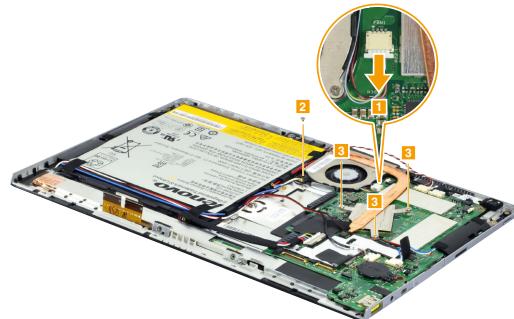
## 1080 Thermal module

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40

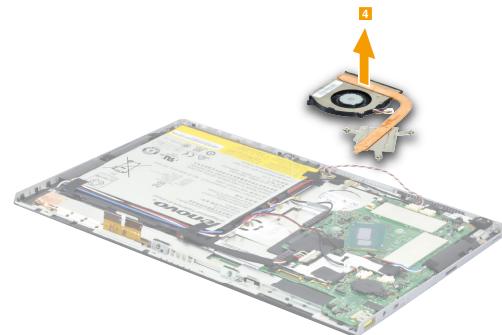
*Figure 8. Removal steps of thermal module*

Detach the fan connector in the direction shown by arrow **1**, then remove screw **2** and loosen the screws **3**.



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2.0 × 3.0, flat-head, nylok-coated, Card & Thermal ASM (1)	Silver	1.6~2 kgf*cm

Lift the thermal module shown by arrow **4**.



## 1090 Battery pack

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40
- “1080 Thermal module” on page 41

### DANGER

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

Figure 9. Removal steps of battery pack

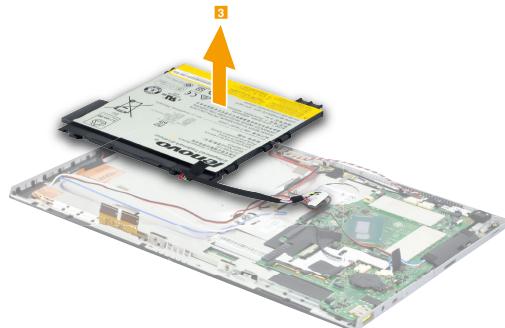
Disconnect the battery connector in the direction shown by arrow ■, then remove the screw 2.



Step	Screw (quantity)	Color	Torque
2	M2.0 × 3.0, flat-head, nylok-coated, Battery & Pogo Pin ASM (1)	Black	1.6~2 kgf*cm

*Figure 9. Removal steps of battery pack (continued)*

Remove the battery pack in the direction shown by arrow 3.



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

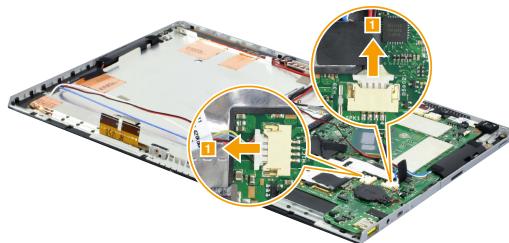
## 1100 Speakers and microphone

For access, remove these FRUs in order:

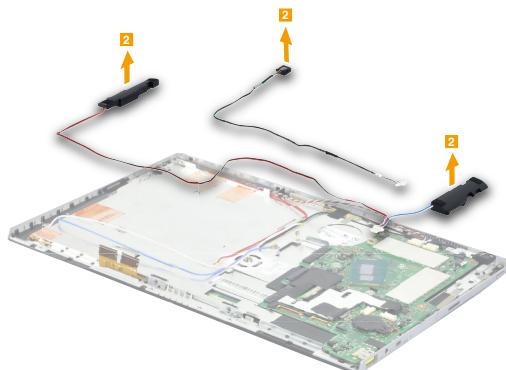
- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40
- “1080 Thermal module” on page 41
- “1090 Battery pack” on page 42

*Figure 10. Removal steps of speakers and microphone*

Detach the speakers and microphone connectors in the directions shown by arrows 1.



Carefully remove the two speakers and the microphone in the direction shown by arrows 2.



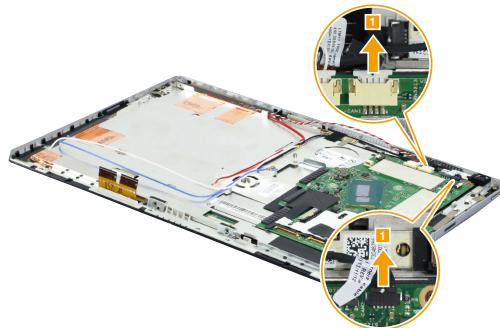
## 1110 Front camera and rear camera

For access, remove these FRUs in order:

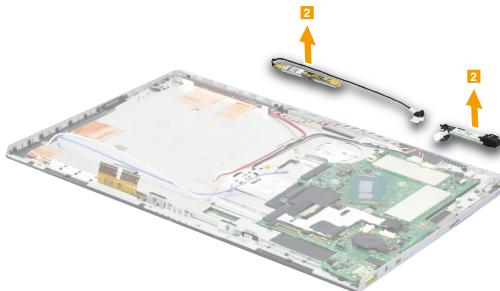
- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40
- “1080 Thermal module” on page 41
- “1090 Battery pack” on page 42
- “1100 Speakers and microphone” on page 44

*Figure 11. Removal steps of front camera and rear camera*

Detach the camera connectors in the direction shown by arrows **■**.



Remove the front camera and rear camera **2**.



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

## 1120 System board

**Important notices for handling the system board:**

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

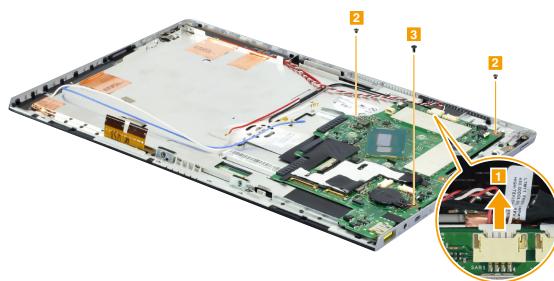
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- In the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded surface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

For access, remove these FRUs in order:

- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40
- “1080 Thermal module” on page 41
- “1090 Battery pack” on page 42
- “1100 Speakers and microphone” on page 44
- “1110 Front camera and rear camera” on page 45

*Figure 12. Removal steps of system board*

Unplug the connector shown by arrow **1**, then remove the three screws **2** and **3**.



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

Step	Screw (quantity)	Color	Torque
<b>2</b>	M2.0 × 2.0, flat-head, nylok-coated, PCB ASM (2)	Black	1.6–2 kgf*cm
<b>3</b>	M2.0 × 2.0, flat-head, nylok-coated, PCB ASM (1)	Black	1.6–2 kgf*cm

*Figure 12. Removal steps of system board (continued)*

Remove the system board as shown by arrow **4**.



## 1130 Antenna assembly

For access, remove these FRUs in order:

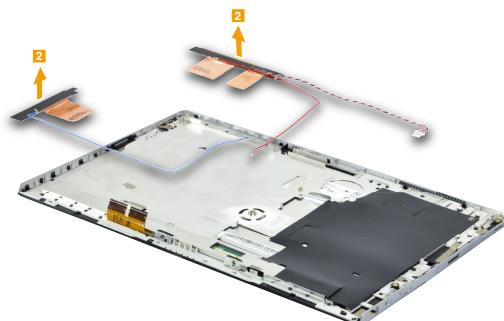
- “1010 LCD cover” on page 31
- “1020 Volume board and power board” on page 33
- “1030 Docking transfer board” on page 34
- “1040 Touch control board, LCD cable and vibrator” on page 36
- “1050 Solid State Disk (SSD)” on page 38
- “1060 Wireless WAN card (on select models)” on page 39
- “1070 Wireless LAN card” on page 40
- “1080 Thermal module” on page 41
- “1090 Battery pack” on page 42
- “1100 Speakers and microphone” on page 44
- “1110 Front camera and rear camera” on page 45
- “1120 System board” on page 46

*Figure 13. Removal steps of antenna assembly*

Remove the wireless LAN antenna assembly by arrows 1.



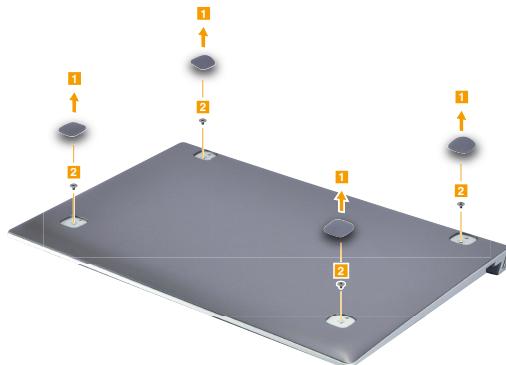
Remove the wireless WAN antenna assembly by arrows 2.



## 1140 Keyboard dock back cover (on select models)

Figure 14. Removal steps of keyboard dock back cover (on select models)

Remove the four rubber feet **1**. Then remove the four screws **2**.



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2.0 × 3.0, flat-head, nylok-coated, Rubber Foot (4)	Black	1.6~2 kgf*cm

Remove the keyboard dock back cover in the direction shown by arrow **3**.



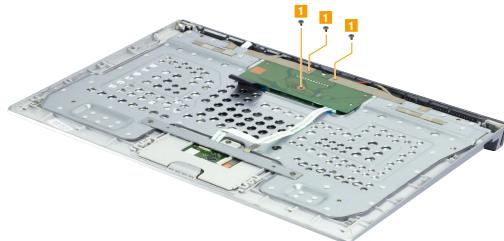
## 1150 Docking board (on select models)

For access, remove this FRU:

- “1140 Keyboard dock back cover (on select models)” on page 49

*Figure 15. Removal steps of docking board (on select models)*

Remove the three screws ■.



Step	Screw (quantity)	Color	Torque
■	M2.0 x 3.0, flat-head, nylok-coated, U-case ASM (3)	Black	1.6~2 kgf*cm

Lift the docking board slightly 2 and unplug the three connectors in the direction shown by arrows 3.

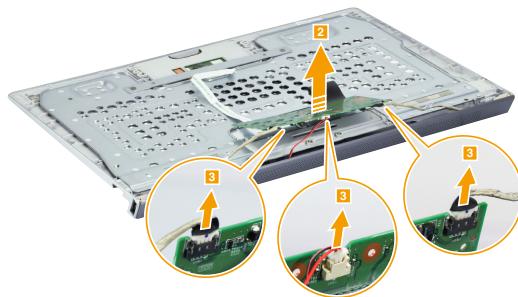
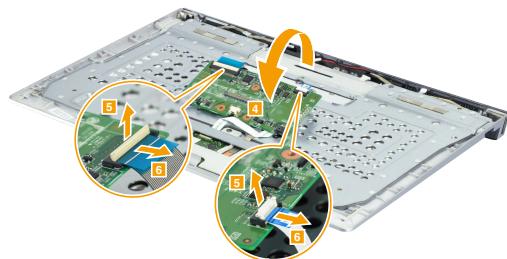


Figure 15. Removal steps of docking board (on select models) (continued)

Turn the docking board over as shown by arrow **4** and detach the two FPC connectors in the directions shown by arrows **5** and **6**. Then remove the docking board.



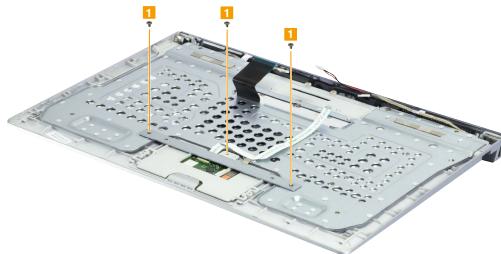
## 1160 Touchpad (on select models)

For access, remove these FRUs in order:

- “1140 Keyboard dock back cover (on select models)” on page 49
- “1150 Docking board (on select models)” on page 50

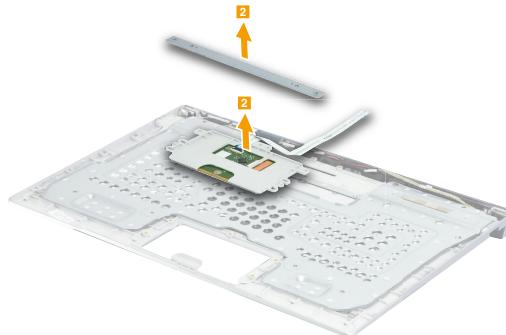
*Figure 16. Removal steps of touchpad (on select models)*

Remove the screws ■.



Step	Screw (quantity)	Color	Torque
■	M2.0 × 3.0, flat-head, nylok-coated, U-case ASM (3)	Black	1.6~2 kgf*cm

Remove the touchpad bracket and the touchpad board 2.



## 1170 Keyboard dock speaker (on select models)

For access, remove these FRUs in order:

- “1140 Keyboard dock back cover (on select models)” on page 49
- “1150 Docking board (on select models)” on page 50
- “1160 Touchpad (on select models)” on page 52

*Figure 18. Removal steps of keyboard dock speaker (on select models)*

Remove the screws ■.



Step	Screw (quantity)	Color	Torque
■	M2.0 × 3.0, flat-head, nylok-coated, U-case ASM (2)	Black	1.6~2 kgf*cm

Remove the keyboard dock speaker in the direction shown by arrow 2.



## Locations

### Tablet

- Ventilation slots
- 2 Front camera
- 3 Built-in microphone
- 4 Power button
- 5 Speaker
- 6 Micro SD card slot
- 7 Micro SIM card slot (on select models)
- 8 Micro HDMI port
- 9 Combo audio jack
- 10 AC power adapter jack
- 11 Volume up button
- 12 Volume down button
- 13 Speaker
- 14 Windows button
- 15 Keyboard dock connector
- 16 Rear camera



## Keyboard dock (on select models)

- Speaker
- 2 Keyboard dock connector
- 3 USB 2.0 port
- 4 Touchpad



---

## Parts list

This section presents the following service parts:

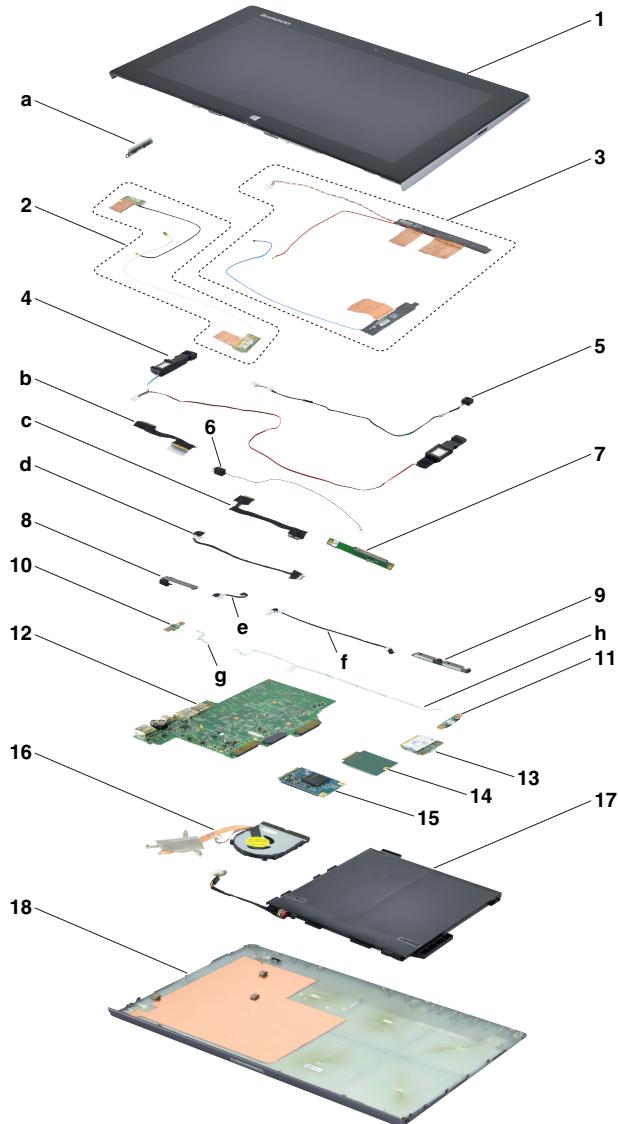
- “Overall” on page 57
- “Miscellaneous parts” on page 62
- “Screws” on page 62
- “AC adapters” on page 63
- “Power cords” on page 63

**Note:**

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

## Overall

Tablet



*Table 4. Parts list—Overall (Tablet)*

No.	FRU	FRU no.	CRU ID.
a-h	See "Miscellaneous parts" on page 62.		
1	LTM11 LCD Module W/Bezel	90400293	
2	LTM11 Antenna WIFI MAIN&AUX	90205258	
3	LTM11 Antenan 3G MAIN&AUX US	90205259	
3	LTM11 Antenna 3G MAIN&AUX EU	90205260	
4	Pad speaker, Miix 2 11 JBL 151130 Speaker	101500474	
5	LTM11Microphone	90205262	
6	LTM11 Vibrator	90205244	
7	LTM11 Docking Transfer Board	90006916	
8	LTM11 Camera 5M	90205298	
9	LTM11 Camera 2M	90205299	
10	LTM11 Power Switch Board	90006914	
11	LTM11 Volume Board	90006915	
12	LTM11 MB UMA I3-4012Y 4G	90006919	
12	LTM11 MB W8.1P UMA I3-4012Y 4G	90006920	
12	LTM11 MB W8.1S UMA I3-4012Y 4G	90006921	
12	LTM11 MB UMA I3-4012Y 2G	90006922	
12	LTM11 MB W8.1P UMA I3-4012Y 2G	90006923	
12	LTM11 MB W8.1S UMA I3-4012Y 2G	90006924	
12	LTM11 MB UMA I5-4202Y 2G	90006925	
12	LTM11 MB W8.1P UMA I5-4202Y 2G	90006926	
12	LTM11 MB W8.1S UMA I5-4202Y 2G	90006927	
12	LTM11 MB UMA I5-4202Y 4G	90006928	
12	LTM11 MB W8.1P UMA I5-4202Y 4G	90006929	
12	LTM11 MB W8.1S UMA I5-4202Y 4G	90006930	
12	LTM11 MB UMA I5-4202Y 8G	90006931	
12	LTM11 MB W8.1P UMA I5-4202Y 8G	90006932	
12	LTM11 MB W8.1S UMA I5-4202Y 8G	90006933	
12	LTM11 MB UMA I3-4012Y 2G For 3G	90007335	
12	LTM11 MB W8.1P UMA I3-4012Y 2G For 3G	90007336	
12	LTM11 MB W8.1S UMA I3-4012Y 2G For 3G	90007337	
12	LTM11 MB UMA I3-4012Y 4G For 3G	90007338	
12	LTM11 MB W8.1P UMA I3-4012Y 4G For 3G	90007339	
12	LTM11 MB W8.1S UMA I3-4012Y 4G For 3G	90007340	
12	LTM11 MB UMA I5-4202Y 2G For 3G	90007341	
12	LTM11 MB W8.1P UMA I5-4202Y 2G For 3G	90007342	
12	LTM11 MB W8.1S UMA I5-4202Y 2G For 3G	90007343	
12	LTM11 MB UMA I5-4202Y 4G For 3G	90007344	
12	LTM11 MB W8.1P UMA I5-4202Y 4G For 3G	90007345	
12	LTM11 MB W8.1S UMA I5-4202Y 4G For 3G	90007346	
12	LTM11 MB UMA I5-4202Y 8G For 3G	90007347	
12	LTM11 MB W8.1P UMA I5-4202Y 8G For 3G	90007348	
12	LTM11 MB W8.1S UMA I5-4202Y 8G For 3G	90007349	

N

Table 4. Parts list—Overall (Tablet) (continued)

No.	FRU	FRU no.	CRU ID.
13	WLAN, Cbt BCM943228HMB 2x2ABGN+BT4.0 HMC	20200221	N
13	WLAN, Liteon WB222 2x2ABGN+BT4.0 HMC WLAN	20200225	
14	Ericsson N5321 WCDMA NGFF WOW WWAN	20200464	
15	Ramaxel T800S 64G mSATA SSD	16200502	
15	Samsung MZMPF064HCGM-000L1 64G mSATA SSD	16200562	
15	Samsung PM841 128GB mSATA SSD(TLC)	16200317	
15	Samsung MZMTE128HMGR 128GB mSATA SSD	16200596	
15	Toshiba THNSNH128GMCT 128GB mSATA	16200350	
15	Samsung PM841-256GB mSATA SSD	16200318	
15	Samsung MZMTE256HMHP 256GB mSATA SSD	16200597	
15	Toshiba THNSNH256GMCT 256GB mSATA	16200351	
16	LTM11 Thermal Module UMA W/FAN	90205261	
17	Battery, Rhythm SP/A L13M2P23 7.4V36Wh 2cell bty	121500233	
17	Battery, Rhythm SY L13S2P21 7.4V36Wh 2cell bty	121500232	
18	LTM11 LCD Cover W/Magnet	90205256	
—	AC power adapter (see "AC adapters" on page 63).	*	

## Keyboard dock

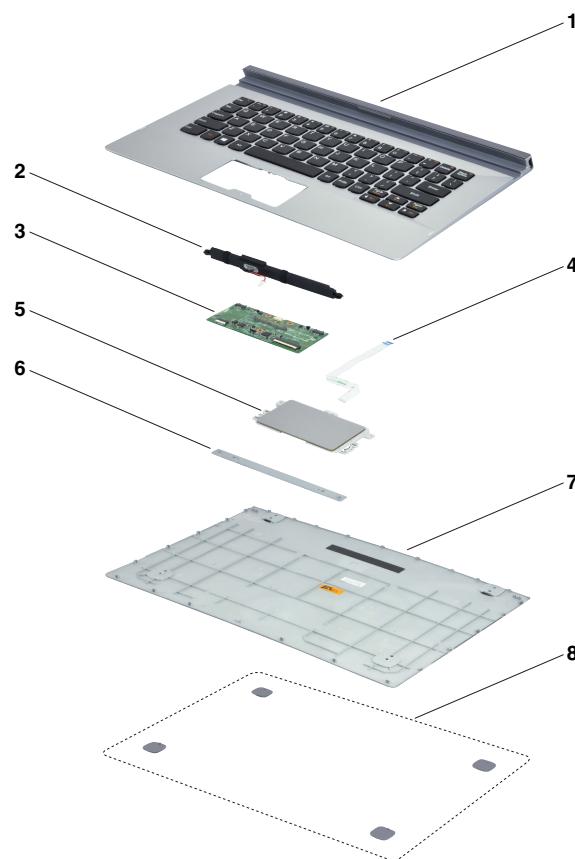


Table 5. Parts list—Overall (Keyboard dock)

No.	FRU	FRU no.	CRU ID.
1	LTM11 Upper Case W/US-KB	90205257	N
1	LTM11 Upper Case W/UK-KB	90205270	
1	LTM11 Upper Case W/ITALIAN-KB	90205271	
1	LTM11 Upper Case W/SPANISH-KB	90205272	
1	LTM11 Upper Case W/TURKISH-KB	90205273	
1	LTM11 Upper Case W/THAIAND-KB	90205274	
1	LTM11 Upper Case W/PORTUGUE-KB	90205275	
1	LTM11 Upper Case W/LATINSPA-KB	90205276	
1	LTM11 Upper Case W/CA-KB	90205277	
1	LTM11 Upper Case W/KOREAN-KB	90205278	
1	LTM11 Upper Case W/TD-KB	90205279	
1	LTM11 Upper Case W/RUSSIAN-KB	90205280	
1	LTM11 Upper Case W/FRENCH-KB	90205281	
1	LTM11 Upper Case W/GERMANH-KB	90205282	
1	LTM11 Upper Case W/ARABIC-KB	90205283	
1	LTM11 Upper Case W/BRAZIL-KB	90205284	
1	LTM11 Upper Case W/DUTCH-KB	90205285	
1	LTM11 Upper Case W/GREEK-KB	90205286	
1	LTM11 Upper Case W/HEBREW-KB	90205287	
1	LTM11 Upper Case W/HUN-KB	90205288	
1	LTM11 Upper Case W/NORDIC-KB	90205289	
1	LTM11 Upper Case W/BELGIAN-KB	90205290	
1	LTM11 Upper Case W/ICELAND-KB	90205291	
1	LTM11 Upper Case W/SLOVENIAN-KB	90205292	
1	LTM11 Upper Case W/SWISS-KB	90205293	
1	LTM11 Upper Case W/INTER-US-KB	90205294	
1	LTM11 Upper Case W/CZE-SLK-KB	90205295	
1	LTM11 Upper Case W/BULGARIAN-KB	90205296	
1	LTM11 Upper Case W/INDIA-KB	90205297	
1	LTM11 Upper Case W/JP-KB	90205325	
2	Dock subwoofer, Miix 2 11 JBL Blade II Speaker	101500462	
3	LTM11 Docking Board	90006917	
4	LTM11 TouchPad Button Cable	90205252	
5	LTM11 TouchPad Board	90006918	
6	LTM11 TouchPad Bracket	90205254	
7	LTM11 Lower Case	90205253	
8	LTM11 Rubber Foot Front	90205263	
8	LTM11 Rubber Foot Rear	90205264	

## Miscellaneous parts

*Table 6. Parts list—Miscellaneous parts*

FRU	P/N	CRU ID.
System miscellaneous parts:		
• (a) LTM11 SIM Card Door for 3G	90205255	
• (a) LTM11 SIM Card Door for NON-3G	90205510	
Cable miscellaneous parts:		
• (b) LTM11 LCD Cable	90205251	
• (c) LTM11 Docking Transfer Board Cable	90205250	
• (d) LTM11 Touch Panel control Cable	90205249	
• (e) LTM11 Rear Camera Cable	90205248	
• (f) LTM11 Front Camera Cable	90205247	
• (g) LTM11 Power Switch Board Cable	90205245	
• (h) LTM11 Volume Board Cable	90205246	
<b>Note:</b> Italicized letters in parentheses are references to the exploded view in “Overall” on page 57.		N

## Screws

*Table 7. Parts list—Screws*

FRU	P/N	CRU ID.
LTM11 Screw pack for PAD	90205265	
LTM11 Screw Pack for DOCK	90205266	N

## AC adapters

Table 8. Parts list—AC adapters

FRU	P/N	CRU ID.
Adapter, Delta ADL40WDA 20V/5.2V 2A 40W adapter	36200561	
Adapter, Delta ADL40WDJ 20V/5.2V 2A 40W adapter	36200562	
Adapter, Delta ADL40WDB 20V/5.2V 2A 40W adapter	36200563	
Adapter, Delta ADL40WDD 20V/5.2V 2A 40W adapter	36200564	
Adapter, Delta ADL40WDG 20V/5.2V 2A 40W adapter	36200565	
Adapter, Delta ADL40WDE 20V/5.2V 2A 40W adapter	36200566	
Adapter, Delta ADL40WDC 20V/5.2V 2A 40W adapter	36200567	
Adapter, Delta ADL40WDH 20V/5.2V 2A 40W adapter	36200616	
Adapter, Chicony ADL40WCA 20V/5.2V 2A40W adapter	36200579	
Adapter, Chicony ADL40WCB 20V/5.2V 2A40W adapter	36200580	
Adapter, Chicony ADL40WCC 20V/5.2V 2A40W adapter	36200581	
Adapter, Chicony ADL40WCD 20V/5.2V 2A40W adapter	36200582	
Adapter, Chicony ADL40WCE 20V/5.2V 2A40W adapter	36200583	
Adapter, Chicony ADL40WCF 20V/5.2V 2A40W adapter	36200584	
Adapter, Chicony ADL40WCG 20V/5.2V 2A40W adapter	36200585	
Adapter, Chicony ADL40WCH 20V/5.2V 2A40W adapter	36200618	
Adapter, Liteon ADL40WLA 20V/5.2V 2A40W adapter	36200572	
Adapter, Liteon ADL40WLB 20V/5.2V 2A40W adapter	36200573	
Adapter, Liteon ADL40WLC 20V/5.2V 2A40W adapter	36200574	
Adapter, Liteon ADL40WLĐ 20V/5.2V 2A40W adapter	36200575	
Adapter, Liteon ADL40WLE 20V/5.2V 2A40W adapter	36200576	
Adapter, Liteon ADL40WLF 20V/5.2V 2A40W adapter	36200577	
Adapter, Liteon ADL40WLG 20V/5.2V 2A40W adapter	36200578	
Adapter, Liteon ADL40WLH 20V/5.2V 2A40W adapter	36200617	

\*

## Power cords

Table 9. Parts list—power cords

FRU	P/N	CRU ID.
USB Cable, Linetek Pad USB 1.85m USB cord	145500118	
USB Cable, Luxshare Pad USB 1.85m USB cord	145500120	*

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