

# Lenovo ideapad 330 Hardware Maintenance Manual

**Lenovo**<sup>™</sup>

**Notes:**

- Before using this information and the product it supports, be sure to read the general information under “Notices” on page 87.
- This manual applies to the following models: Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch.  
The illustrations used in this manual are for Lenovo ideapad 330-15ICN unless otherwise stated.

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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 330-14IGM/Lenovo ideapad 330-15IGM/  
Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/  
Lenovo ideapad 330-15ARR Touch**

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 330-14IGM/  
Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/  
Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch 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 ללטלט את המחשב ולהקשיב לגילוי קולות שקשוק. חלקי או שבבי מתכת עלולים לגרום לקצרים חשמליים.

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

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

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

## Safety notice 2

### DANGER

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

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

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

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

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

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

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



**Safety notice 3****⚠ DANGER**

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

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

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

מארו הסוללה מכיל כמויות קטנות של ניקל וקדמיום. אין לפרק את מארו הסוללה, להשליך אותו לאש או למים או לקצר אותו. יש לטפל את מארו הסוללה כנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה המופיעה ברשימת החלקים המתאימה בזמן החלפת מארו הסוללה. שימוש בסוללה לא מתאימה עלול לגרום לתצתה או התפוצצות של הסוללה.

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

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

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

#### Safety notice 4

##### DANGER

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

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

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

סוללת הליתיום עלולה לגרום לשריפה, להתפוצצות או לכוויות קשות. אין לטעון אותה מחדש, לטלוק את המחבר המקוטב שלה, לפרק אותה או לחמם אותה לטמפרטורה העולה על 100 מעלות צלזיוס. אין לשרוף את הסוללה ואין לחשוף את תוכן התא למים. יש לטלוק את הסוללה כנדרש בתקנות ובחוקים המקומיים. יש להשתמש רק בסוללה המומינה ברשימת החלקים המתאימים. שימוש בסוללה אחרת עלול לגרום לשכנת 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 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 הנביש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע עם עיניים או ידיים, 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 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 despues de lavarse.

**Safety notice 6**

**⚠ DANGER**

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

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

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

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

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

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

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

**Safety notice 7**

**⚠ DANGER**

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

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

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

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

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

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

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

**Safety notice 8**

**⚠ DANGER**

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

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

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

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

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

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

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

## Laser compliance statement

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

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

### CAUTION

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

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

凡未在这里指明的任何控制用法、调整、行为，都会导致严重后果。

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

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

Az itt előírt eljárásoktól, beállítástoktól 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!

Apriendo 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 22
- “Checking the battery pack” on page 22

### Checking the AC adapter

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

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

To check the AC adapter, follow the steps below:

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



Pin	Voltage (V DC)
1	+20
2	

**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 330” on page 26.

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

## **Checking operational charging**

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

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

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

## **Checking the battery pack**

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

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

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

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## Related service information

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This chapter presents the following information:

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

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## Restoring the factory contents by using recovery system

### Restore of factory default

The Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch computers come with 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. 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 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 Administrator password was set then User password can 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.


### 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.
- Open the start menu, and then select **Power**  → **Sleep**.

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


To wake the computer, do one of the following:

- Press 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 the computer, do one of the following:

- Open the start menu, and then select **Power**  → **Shut down**.
- Right-click the **Start** button in the lower-left corner and select **Shut down or sign out** → **Shut down**.

## Lenovo ideapad 330

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

- “Specifications” on page 26
- “Status indicators” on page 29
- “Fn key combinations/Hotkeys” on page 30
- “FRU replacement notices” on page 31
- “Removing and replacing an FRU” on page 32
- “Locations” on page 61
- “Parts list” on page 63

## Specifications

The following table lists the specifications of the Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch:

*Table 1. Specifications*

Feature	Description
Processor	<ul style="list-style-type: none"> <li>• View the system properties of your computer. You can do this as follows: Open the <b>Control Panel</b>, and then select <b>System and Security</b> → <b>System</b>.</li> </ul>
Bus architecture	<p>Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM:</p> <ul style="list-style-type: none"> <li>• DDR4 2400MHz ---one SO-DIMM</li> <li>• PCIE --- LAN, WLAN,</li> <li>• SATA --- HDD/ODD 2.5', ODD</li> <li>• USB ---USB3.0x1, USB2.0x1, Card Reader, Camera, Bluetooth</li> <li>• LPC --- EC</li> <li>• HDA--- Audio codec</li> <li>• EDP --- FHD/HD panel</li> <li>• DDI --- HDMI</li> <li>• PEG --- AMD graphic for DIS</li> <li>• I2C—Touch pad</li> </ul> <p>Lenovo ideapad 330-15ICN:</p> <ul style="list-style-type: none"> <li>• DR4 2400MHz --- On board x1 + SO-DIMM x1</li> <li>• PCIE --- LAN, WLAN, DGPU</li> <li>• SATA --- HDD/SSD, ODD</li> <li>• USB --- USB3.0 x2, Type-C x1(USB3.0 only)</li> <li>• LPC --- EC, TPM(only reserved)</li> <li>• HDA--- Audio codec</li> <li>• EDP --- FHD/HD panel</li> <li>• DDI --- HDMI, EDP</li> <li>• PEG --- AMD Discrete Graphic</li> </ul>

Table 1. Specifications (continued)

Feature	Description
Bus architecture	<p>Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch:</p> <ul style="list-style-type: none"> <li>• DDR4 2400MHz --- SO-DIMM + Onboard</li> <li>• PCIE GPP --- LAN, WLAN</li> <li>• SATA --- HDD, ODD</li> <li>• USB ---Type Cx1, USB3.0 x2, Card Reader, Camera, Touch Screen, Bluetooth</li> <li>• LPC --- EC</li> <li>• HDA--- Audio Codec</li> <li>• DP --- FHD/HD Panel</li> <li>• DP --- HDMI</li> <li>• PCIE GFX --- AMD Graphic for DIS</li> <li>• I2C—Touch Pad</li> </ul>
Graphic memory chip	<ul style="list-style-type: none"> <li>• Integrated graphics: Depends on CPU (Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)</li> <li>• Discreted graphics:            AMD LV2-R17M-M1-70            GDDR5 (Lenovo ideapad 330-15IGM)            AMD LV2.5 R17M-P1-50            GDDR5 (Lenovo ideapad 330-15ICN)            AMD LV2-R18M-M2-60 for R3 only            GDDR5 (Lenovo ideapad 330-15ARR)</li> </ul>
Display	<ul style="list-style-type: none"> <li>• 14.0" 16:9, 1,366 X 768 pixels HD / 1,920 x 1,080 pixels FHD (Lenovo ideapad 330-14IGM)</li> <li>• 15.6" 16:9, 1,366 X 768 pixels HD / 1,920 x 1.080 pixels FHD (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR)</li> <li>• 15.6" 16:9, 1,366 X 768 pixels HD (Lenovo ideapad 330-15ARR Touch)</li> </ul>
Standard memory	<ul style="list-style-type: none"> <li>• DDR4-2400 MHz, SODIMM × 1 (max 8 GB) (Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM)</li> <li>• DDR4-2400 MHz, SODIMM × 1, on board × 1 (max 4 GB (on board) + 8 GB) (Lenovo ideapad 330-15ICN)</li> <li>• DDR4-2400 MHz, SODIMM × 1, on board × 1 (max 16 GB) (Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)</li> </ul>
CMOS RAM	<p>Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch:</p> <ul style="list-style-type: none"> <li>• SPI --- SPI ROM.</li> </ul> <p>Lenovo ideapad 330-15ICN:</p> <ul style="list-style-type: none"> <li>• SPI --- System BIOS ROM, VBIOS ROM</li> </ul>
Storage devices	<ul style="list-style-type: none"> <li>• HDD:            2.5-inch, 7.0 mm SATA II/SATA III, 500 GB / 1 TB / 2 TB (Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/ Lenovo ideapad 330-15ICN)            2.5-inch, 7.0 mm SATA II/SATA III, 500 GB / 1 TB / 2 TB / 128 GB SSD + 1 TB HDD (HDD build in ODD) (Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)</li> <li>• SSD:            128 GB / 256 GB, SATA III</li> </ul>

Table 1. Specifications (continued)

Feature	Description
Optical drive	<ul style="list-style-type: none"> <li>9.0 mm, Write</li> </ul>
I/O port	<ul style="list-style-type: none"> <li>USB 3.0 × 1, USB 2.0 × 1 (Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM)</li> <li>Combo audio jack × 1</li> <li>HDMI 1.4 port × 1</li> <li>Type-C (USB 3.0, 1.5A DC) × 1 (Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)</li> <li>RJ-45 × 1</li> <li>Memory card slot (SD/SDHC/SDXC/MMC)</li> </ul>
Audio	<ul style="list-style-type: none"> <li>3.5 mm Combo audio jack</li> <li>1.5 W speaker × 2</li> </ul>
Bluetooth wireless	<ul style="list-style-type: none"> <li>Combined in combo card</li> </ul>
Keyboard	<ul style="list-style-type: none"> <li>6 rows Lenovo Keyboard</li> </ul>
Integrated camera	<ul style="list-style-type: none"> <li>HD</li> </ul>
Battery	<ul style="list-style-type: none"> <li>Li-ion battery pack, 2 cells, 30 Wh / 35 Wh</li> </ul>
AC adapter	<ul style="list-style-type: none"> <li>20 V DC, UMA 45 W (Lenovo ideapad 330-14IGM)</li> <li>20 V DC, UMA 45 W, DIS 65 W (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)</li> <li>20 V DC, DIS 65 W (Lenovo ideapad 330-15ICN)</li> </ul>
Pre-installed operating system	<ul style="list-style-type: none"> <li>Win 10 64bits</li> <li>Free-DOS</li> </ul>

## Status indicators

The system status indicators below show the computer status:

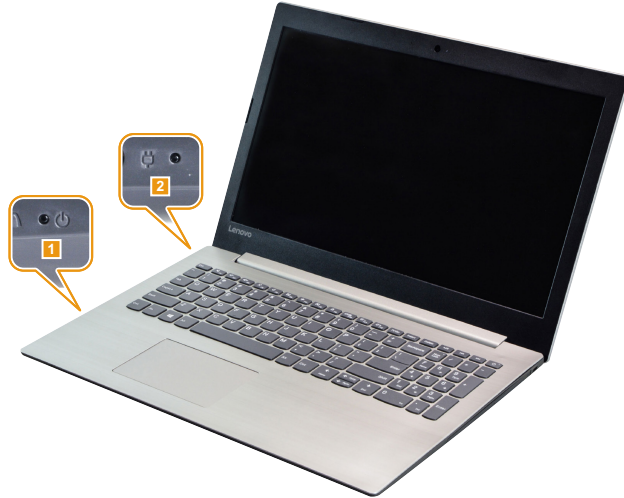




Table 2. Status indicators

Symbol	Indicator	Indicator status	Charge status	Meaning
<b>1</b> 	Power	On (solid white)	---	The computer is powered on.
		Blinking	---	The computer is in sleep mode.
		Off	---	The computer is powered off.
<b>2</b> 	Battery	On (solid white)	Charging	The battery has more than 80% charge, charging will continue until the battery is fully charged.
		On (solid amber)	Discharging	The battery has between 5% and 20% charge.
		Blinking slowly (white)	Charging	The battery has between 20% and 80% charge. When the battery reaches 80% charge, the light will stop blinking. However, charging will continue until the battery is fully charged.
		Blinking slowly (amber)	Charging	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
		Blinking quickly (amber)	Discharging	The battery has between 1% and 5% charge.
		Off	Discharging	The computer is in sleep mode or turned off; the battery has more than 20% charge.

## Fn key combinations/Hotkeys













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

Table 3. Fn key combinations

<b>Fn + PrtSc (Lenovo ideapad 330-14IGM):</b>	Activates the insert function.
<b>Fn + B:</b>	Activates the break function.
<b>Fn + P:</b>	Activates the pause function.
<b>Fn + C:</b>	Enables/disables the scroll lock.
<b>Fn + Y:</b>	Activates the system request.
<b>Fn + S + V:</b>	Set the battery Ship Mode.
<b>Fn + ↑:</b>	Activates the Pgup key function.
<b>Fn + ↓:</b>	Activates the Pgdn key function.
<b>Fn + ←:</b>	Activates the home key function.
<b>Fn + →:</b>	Activates the end key function.

You can access certain system settings quickly by pressing the appropriate hotkeys.

Table 4. Hotkeys

 : Mutes/unmutes the sound.	 : Enables/disables Airplane mode.
 : Decreases the volume level.	 : Enables/disables the integrated camera.
 : Increases the volume level.	 : Locks the screen.
 : Enables/disables the microphone.	 : Toggles the display between the computer and an external device.
 : Refreshes the desktop or the currently active window.	 : Decreases the display brightness.
 : Enables/disables the touchpad.	 : Increases the display brightness.

## Setting hotkey mode

By default, the hotkey functions are accessible by pressing the appropriate hotkey. However, you can disable the hotkey mode in the BIOS setup utility.

To disable the hotkey mode:

1. Shut down the computer.
2. Press the Novo button and then select **BIOS Setup**.
3. In the BIOS setup utility, open the **Configuration** menu, and change the setting of **HotKey Mode** from **Enabled** to **Disabled**.
4. Open the **Exit** menu, and select **Exit Saving Changes**.

**Note:** When hotkey mode is disabled, press the **Fn** key and the appropriate hotkey to access the corresponding hotkey function.

## 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.

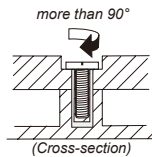
Do the following when you service this machine:

- 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:

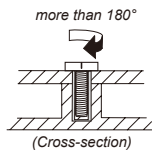
- **Plastic to plastic**

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 31.
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 61.
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.

### Notes:

- This manual applies to the following models:  
Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/  
Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/  
Lenovo ideapad 330-15ARR Touch.
- The illustrations used in this manual are for Lenovo ideapad 330-15ICN unless otherwise stated.



## 1010 Optical drive

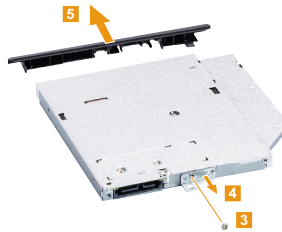
Figure 1. Removal steps of optical drive

Remove the screw **1**, then gently pull the optical drive out in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2.5 × 7 mm, Phillips head, nylok-coated (1) D+C	Silver/ Black	3±0.3 kgf*cm

Remove the screw **3**, then carefully remove the optical drive bracket and bezel in the directions shown by arrows **4** and **5**.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M1.98 × 3 mm, Phillips head, nylok-coated (1) BKT + ODD	Black	1.85±0.15 kgf*cm

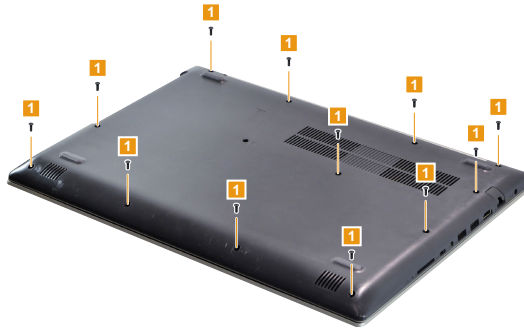
## 1020 Base cover

For access, remove these FRUs in order:

- "1010 Optical drive" on page 33

Figure 2. Removal steps of base cover

Remove the screws **1** from the bottom.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2.5 × 7 mm, Phillips head, nylok-coated (12) D+C	Silver/ Black	3±0.3 kgf*cm

Remove the base cover **2**.



**Note: Applying labels to the base cover**

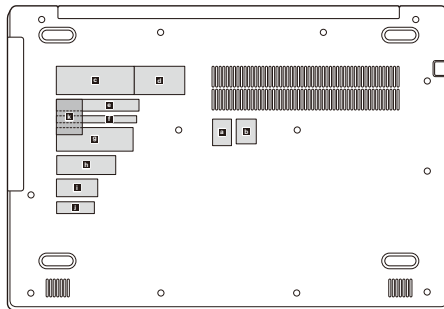
If you see the following labels on base cover, it needs to be peeled off from the old base cover, and put on the new base cover.

- a** OS label
- b** Office label
- c** Rating label
- d** Print rating labelc
- e** TW label
- f** Argentina labele
- g** Adapter label
- h** KCC label
- i** WL/BT label
- j** Indonesia label
- k** BIS label

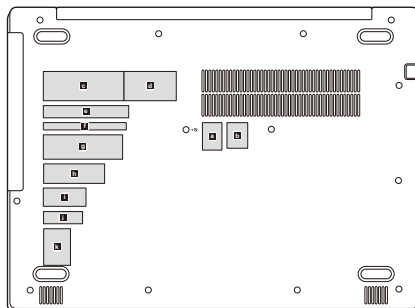
For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

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

**Lenovo ideapad 330-15 series**



**Lenovo ideapad 330-14 series**



## 1030 Battery pack

For access, remove this FRU:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34

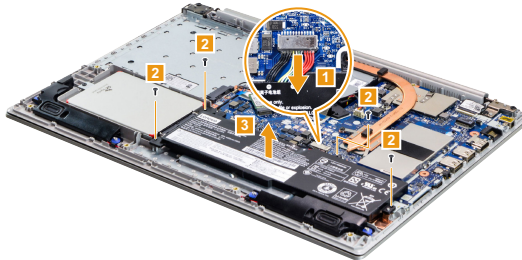
**⚠ DANGER**

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

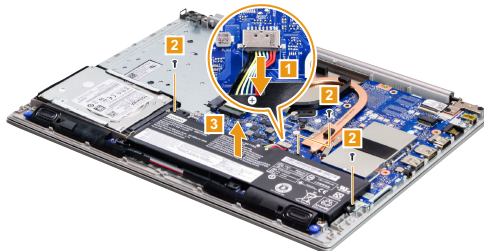
*Figure 3. Removal steps of battery pack*

Unplug the battery pack connector in the direction shown by arrow **1**, then remove the screws **2**. Remove the battery pack in the direction shown by arrow **3**.

### Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch



### Lenovo ideapad 330-14IGM



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2 × 6 mm, Phillips head, nylok-coated (4) BATTERY+C	Black	1.85±0.15 kgf*cm

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

## 1040 Hard disk drive

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

### Attention:

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

Figure 4. Removal steps of hard disk drive

### Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/ Lenovo ideapad 330-15ARR Touch

Remove the screw **1**.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2 × 6 mm, Phillips head, nylok-coated (1) HDD+C	Black	1.85±0.15 kgf*cm

*Figure 4. Removal steps of hard disk drive (continued)*

Remove the hard disk drive in the direction shown by arrow **2**.



Remove the screws **3**, and then take out the metal frame.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M3.0 × 3.0 mm, Phillips head, nylok-coated (4) HDD+HDD BKT	Black	3±0.3 kgf*cm

### **Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM**

Remove the hard disk drive in the direction shown by arrow **1**.



Figure 4. Removal steps of hard disk drive (continued)

Take out the metal frame in the directions shown by arrows **2**.



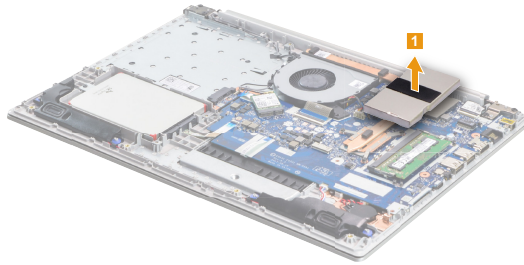
## 1050 DIMM

For access, remove these FRUs in order:

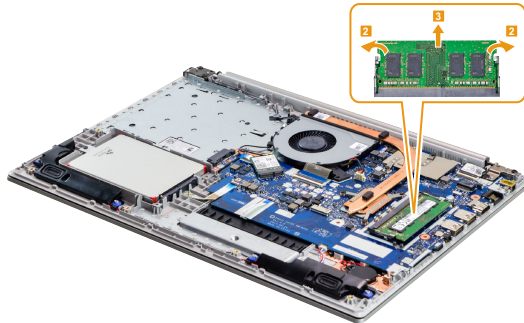
- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

*Figure 5. Removal steps of DIMM*

Carefully remove the DIMM EMI shielding 1.



Release the two latches on both edges of the socket at the same time in the directions shown by arrows **2**, and then unplug the DIMM in the direction shown by arrow **3**.



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

**Note:** When replacing the memory is completed, you need to restart the computer after the first reboot.



## 1060 PCI Express Mini Card for wireless LAN

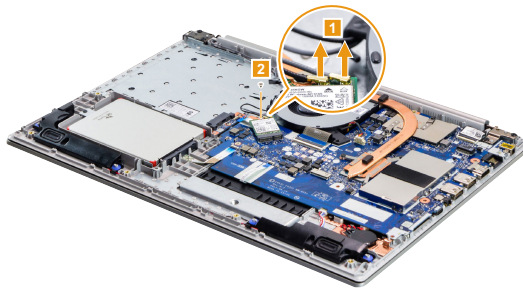
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

**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 5. Parts list—Overall” on page 69 for Lenovo part numbers for the approved modules.

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

Disconnect the two wireless LAN cables (black, gray) **1**. Remove the screw **2**.



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

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

Step	Screw (quantity)	Color	Torque
<b>2</b>	M1.98 × 3 mm, Phillips head, nylok-coated (1) WLAN card +MB	Black	1.85±0.15 kgf*cm

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

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



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

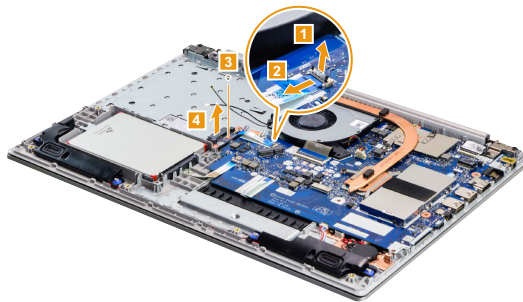
## 1070 ODD board (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1060 PCI Express Mini Card for wireless LAN” on page 41

*Figure 7. Removal steps of ODD board (Lenovo ideapad 330-15IGM/  
Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/  
Lenovo ideapad 330-15ARR Touch)*

Detach the ODD board connector in the directions shown by arrows **1** and **2**.  
Remove the screw **3**. Remove the ODD board **4**.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M1.98 X 3 mm, Phillips head, nylok-coated (1) ODD BOARD+C	Silver	1.85±0.15 kgf*cm

## 1080 Fan and heat sink assembly

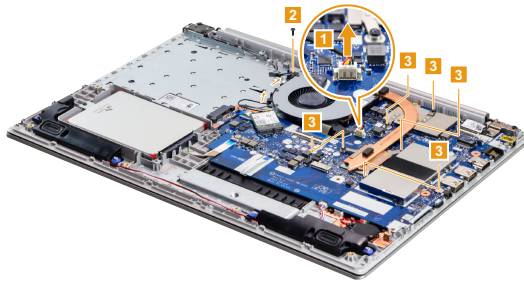
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

*Figure 8. Removal steps of fan and heat sink assembly*

Unplug the fan connector in the direction shown by arrow **1**. Remove the screw **2**, then loosen the screws **3**. Release the antenna from the cable guides.

### Lenovo ideapad 330-15ICN



### Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch

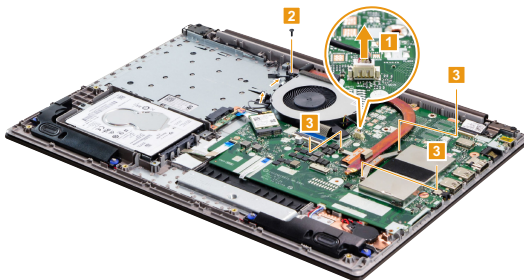
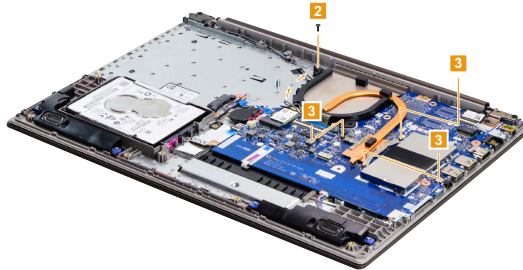


Figure 8. Removal steps of fan and heat sink assembly (continued)

Remove the screw **2**, then loosen the screws **3**. Release the antenna from the cable guides.

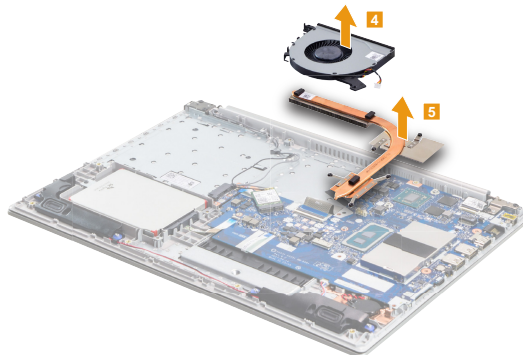
**Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM**



Step	Screw (quantity)	Color	Torque
<b>2</b>	M2 × 6 mm, Phillips head, nylok-coated (1) THERMAL+C	Black	1.85±0.15 kgf*cm

Lift the fan and heat sink in the direction shown by arrows **4** and **5**.

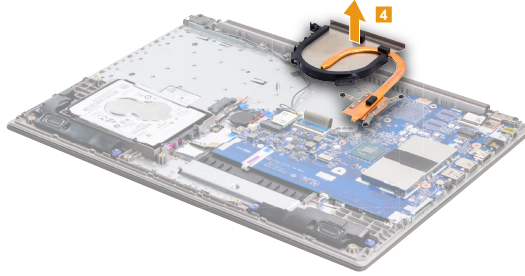
**Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/  
Lenovo ideapad 330-15ARR Touch**



*Figure 8. Removal steps of fan and heat sink assembly (continued)*

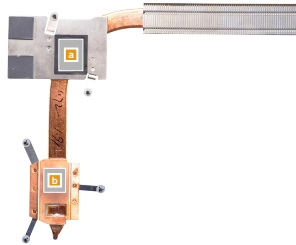
Lift the thermal module in the direction shown by arrows **4**.

**Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM**



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

**Lenovo ideapad 330-15ICN**



**Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch**

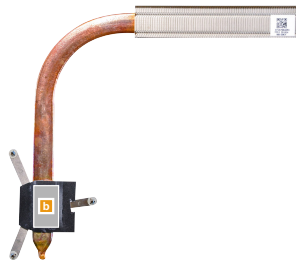


Figure 8. Removal steps of fan and heat sink assembly (continued)

**Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM**



**When installing:**

Before you attach the fan assembly to the computer, apply thermal grease, at an amount of 0.2 grams, to the **a** and **b** parts shown in the figure above. Either too much or too little grease application can cause a thermal problem due to imperfect contact with a component.

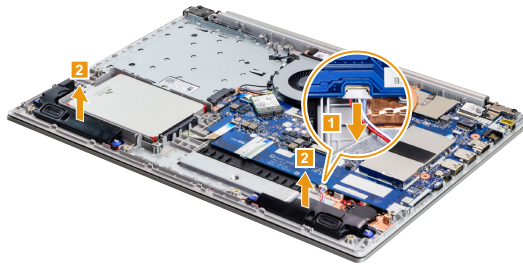
## 1090 Speaker

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

*Figure 9. Removal step of speaker*

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



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



## 1100 RTC battery

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36

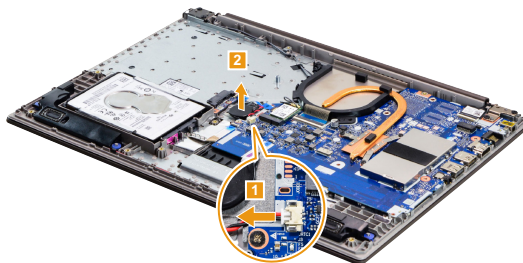
Figure 10. Removal steps of RTC battery

Unplug the RTC battery connector in the direction shown by arrow **1**. Remove the RTC battery **2**.

### Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch



### Lenovo ideapad 330-15IGM



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

## 1110 Upper case

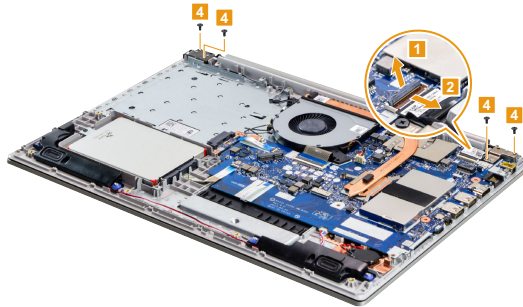
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1060 PCI Express Mini Card for wireless LAN” on page 41

Figure 11. Removal steps of upper case

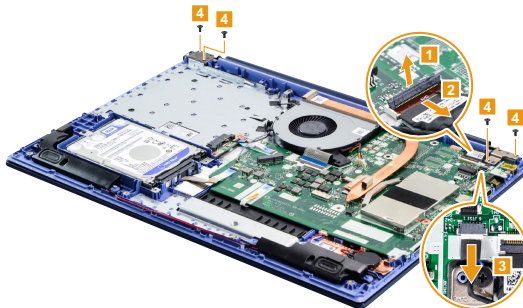
### Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/ Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR

Detach the EDP cable connector in the directions shown by arrows **1** and **2**.  
Remove the screws **4**.



### Lenovo ideapad 330-15ARR Touch

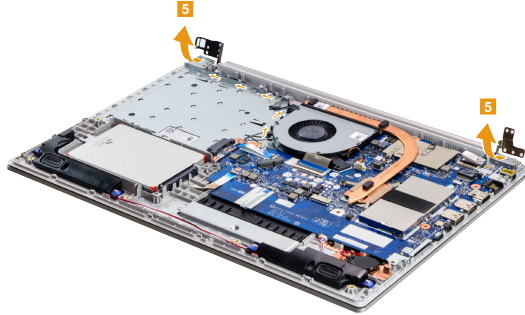
Detach the two EDP cable connectors in the directions shown by arrows **1**, **2**  
and **3**. Remove the screws **4**.



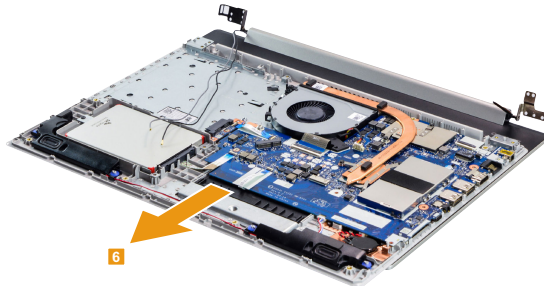
Step	Screw (quantity)	Color	Torque
<b>4.</b>	M2.5 × 5 mm, Phillips head, nylok-coated (4) HINGE BASE+C	Black	3±0.3 kg*cm

Figure 11. Removal steps of upper case (continued)

Open the hinge in the direction shown by arrows **5**. Release the antenna from the cable guides.



Remove the upper case in the direction shown by arrow **6**.



**When installing:** Make sure that the 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.

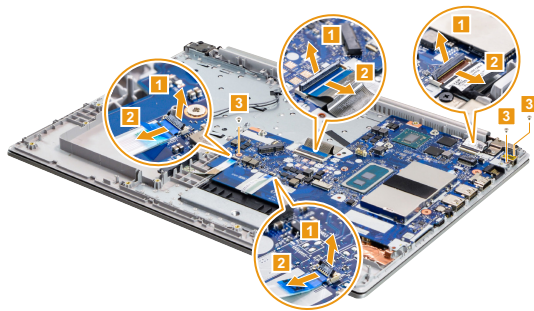
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1150 Integrated camera and EDP cable” on page 59
- “1060 PCI Express Mini Card for wireless LAN” on page 41
- “1070 ODD board (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)” on page 43
- “1080 Fan and heat sink assembly” on page 44
- “1090 Speaker” on page 48
- “1100 RTC battery” on page 49

Figure 12. Removal steps of system board

### Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR

Detach the four connectors (EDP cable connector, KB FPC connector, HDD connector, touchpad connector) in the directions shown by arrows **1** and **2**. Remove the screws **3**.

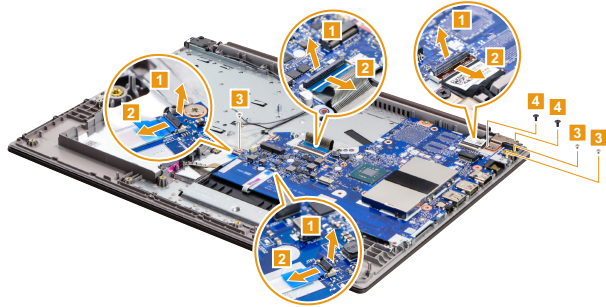


Step	Screw (quantity)	Color	Torque
<b>3</b>	M1.98 × 3 mm, Phillips head, nylok-coated (3) MB+C	Silver	1.85±0.15 kgf*cm

Figure 12. Removal steps of system board (continued)

### Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM

Detach the four connectors (EDP cable connector, KB FPC connector, HDD connector, touchpad connector) in the directions shown by arrows **1** and **2**. Remove the screws **3** and **4**.



Step	Screw (quantity)	Color	Torque
<b>3</b>	M1.98 × 3 mm, Phillips head, nylok-coated (3) MB+C	Silver	1.85±0.15 kgf*cm
<b>4</b>	M2.5 × 5 mm, Phillips head, nylok-coated (2) HINGE BASE+C	Black	3±0.3 kgf*cm

Open the right hinge in the direction shown by arrow **5**.

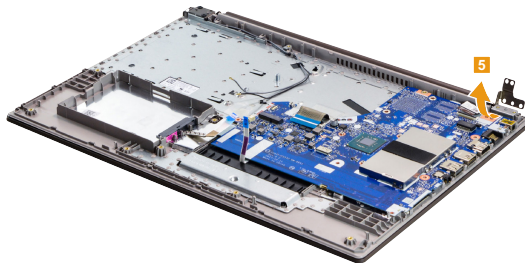
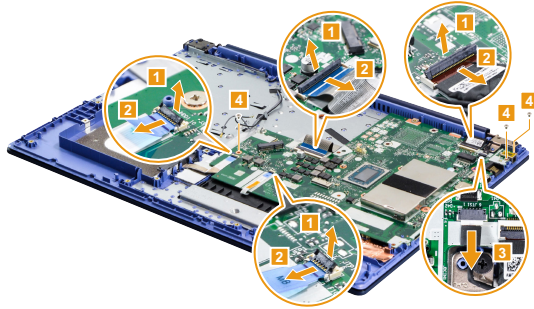


Figure 12. Removal steps of system board (continued)

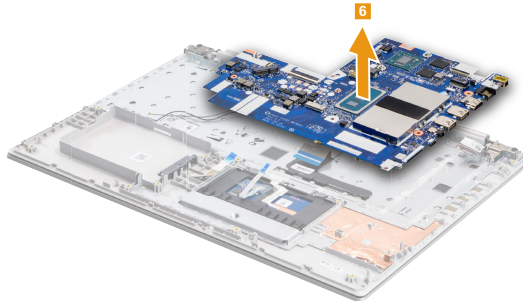
**Lenovo ideapad 330-15ARR Touch**

Detach the five connectors (EDP cable connectors, KB FPC connector, HDD connector, touchpad connector) in the directions shown by arrows 1, 2 and 3. Remove the screws 4.



Step	Screw (quantity)	Color	Torque
4	M1.98 × 3 mm, Phillips head, nylok-coated (3) MB+C	Silver	1.85±0.15 kgf*cm

Remove the system board in the direction shown by arrow 6.



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

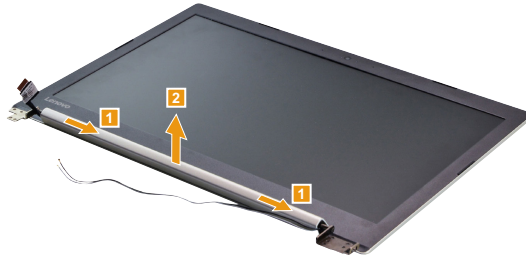
## 1130 LCD unit

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 41
- “1070 ODD board (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)” on page 43
- “1080 Fan and heat sink assembly” on page 44
- “1090 Speaker” on page 48
- “1100 RTC battery” on page 49
- “1110 Upper case” on page 50

*Figure 13. Removal steps of LCD unit*

Pull the hinge cover in the direction shown by arrows **1**. Remove the hinge cover in the direction shown by arrow **2**.



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

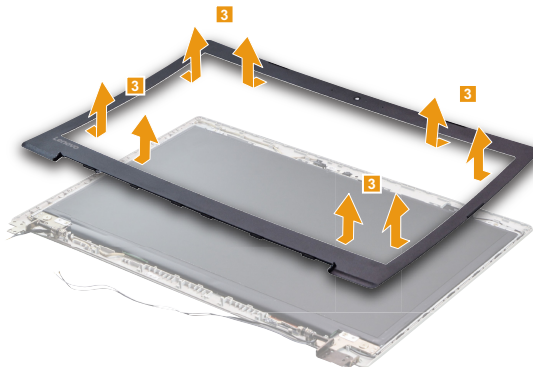
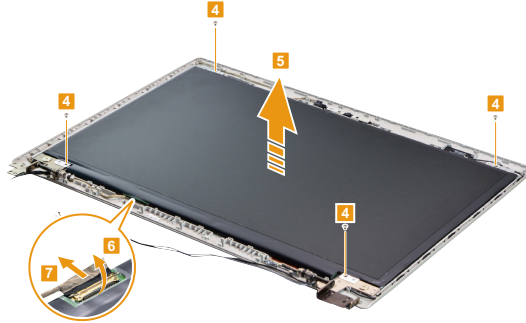


Figure 13. Removal steps of LCD unit (continued)

Remove the screws **4**. Lift the LCD panel slightly **5**. Open the latch on the EDP connector in the direction shown by arrow **6**, then unplug the EDP connector **7**. Then remove the LCD panel.



Step	Screw (quantity)	Color	Torque
4	M1.98 x 3 mm, Phillips head, nylok-coated (4) PANEL+COVER	Silver	1.85±0.15 kgf*cm

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



## 1140 LCD hinges

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 41
- “1070 ODD board (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)” on page 43
- “1080 Fan and heat sink assembly” on page 44
- “1090 Speaker” on page 48
- “1100 RTC battery” on page 49
- “1110 Upper case” on page 50
- “1130 LCD unit” on page 55

Figure 14. Removal steps of LCD hinges

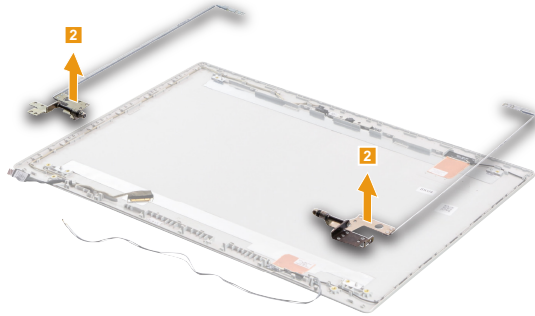
Remove the screws **1**.



Step	Screw (quantity)	Color	Torque
<b>1</b>	M2.5 × 2.5 mm, Phillips head, nylok-coated (4) Hinge L & R + A Cover	Silver	3±0.3 kg*cm

*Figure 14. Removal steps of LCD hinges (continued)*

Release the two hinges in the direction shown by arrows **2**.



## 1150 Integrated camera and EDP cable

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 41
- “1070 ODD board (Lenovo ideapad 330-15IGM/Lenovo ideapad 330-15ICN/ Lenovo ideapad 330-15ARR/Lenovo ideapad 330-15ARR Touch)” on page 43
- “1080 Fan and heat sink assembly” on page 44
- “1090 Speaker” on page 48
- “1100 RTC battery” on page 49
- “1110 Upper case” on page 50
- “1130 LCD unit” on page 55
- “1140 LCD hinges” on page 57

*Figure 15. Removal steps of Integrated camera and EDP cable*

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

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



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

*Figure 15. Removal steps of Integrated camera and EDP cable (continued)*

Remove the camera board and EDP cable in the direction shown by arrows **2** and **3**.



## Locations

### Front and right-side view

- 1 Integrated camera

**Note:**The position of the camera indicator on select models may vary slightly. Please refer to the actual product.

- 2 Built-in microphone
- 3 Computer display
- 4 Wireless LAN antennas
- 5 Ventilation slots
- 6 Touchpad
- 7 Optical drive (on select models)
- 8 Kensington mini security slot
- 9 Power button



### Bottom and left-side view

- 1** Speakers
- 2** Louvers
- 3** Power status indicator

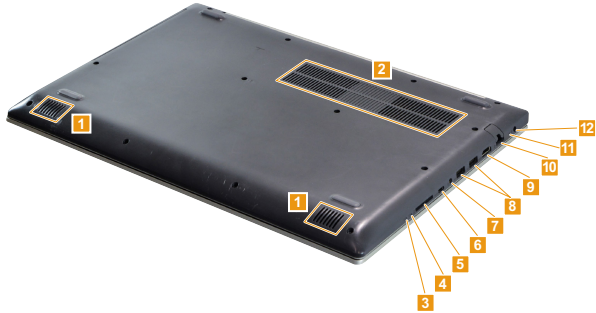
**Note:** For the description of each indicator, see “Status indicators” on page 29.

- 4** Novo button
- 5** Memory card slot
- 6** Type-C port
- 7** Combo audio jack
- 8** USB ports
- 9** HDMI 1.4 port
- 10** RJ-45 port
- 11** Battery status indicator

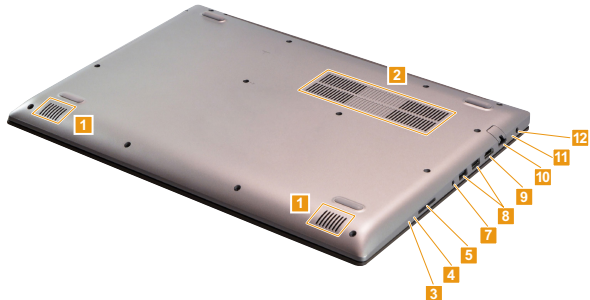
**Note:** For the description of each indicator, see “Status indicators” on page 29.

- 12** AC power adapter jack

### Lenovo ideapad 330-15ICN/ideapad 330-15ARR/ ideapad 330-15ARR Touch



### Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM



## Parts list

This section presents the following service parts:

- “Overall” on page 64
- “LCD FRUs” on page 82
- “Miscellaneous parts” on page 85
- “AC adapters” on page 85
- “Screws” on page 86

**Note:**

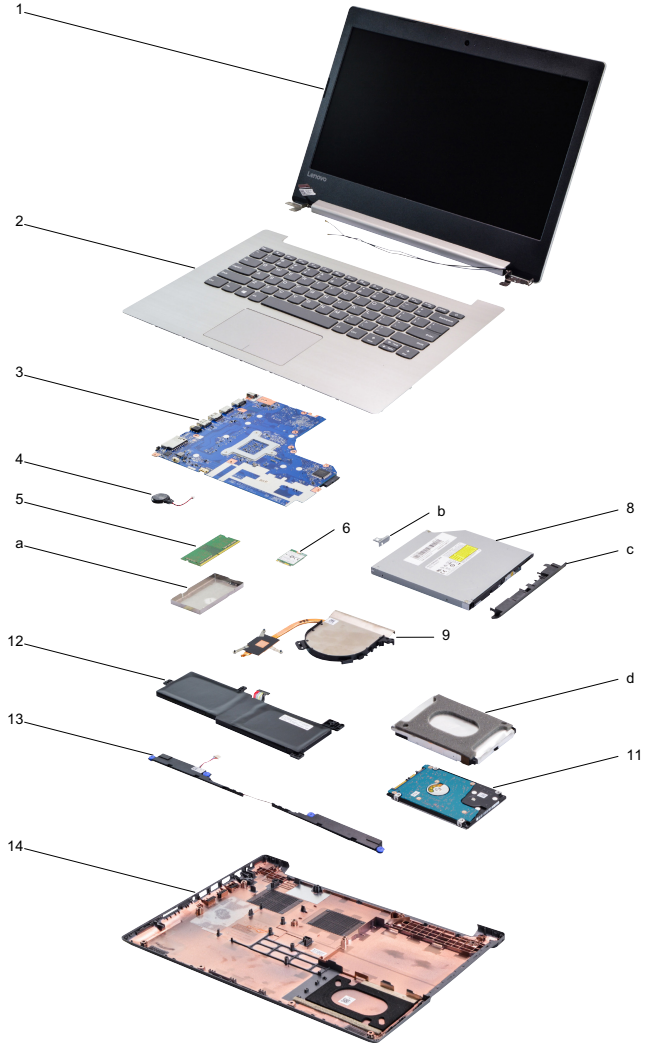
Each FRU is available for all types or models, unless specific types or models are specified.

**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.**

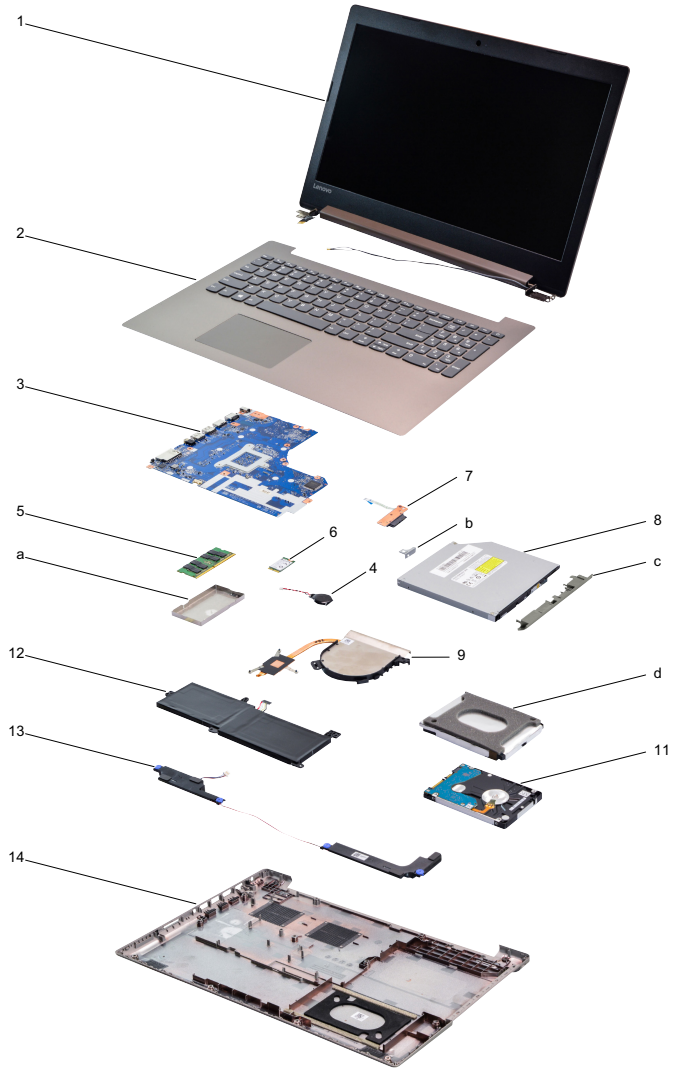
**Overall**

**Lenovo ideapad 330-14IGM**

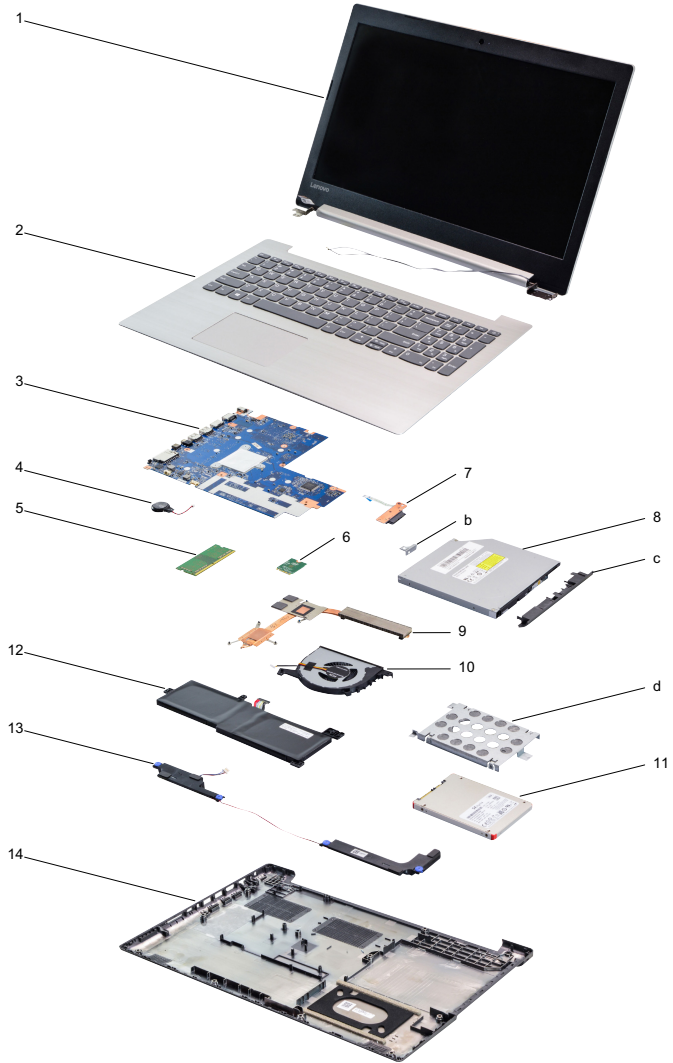




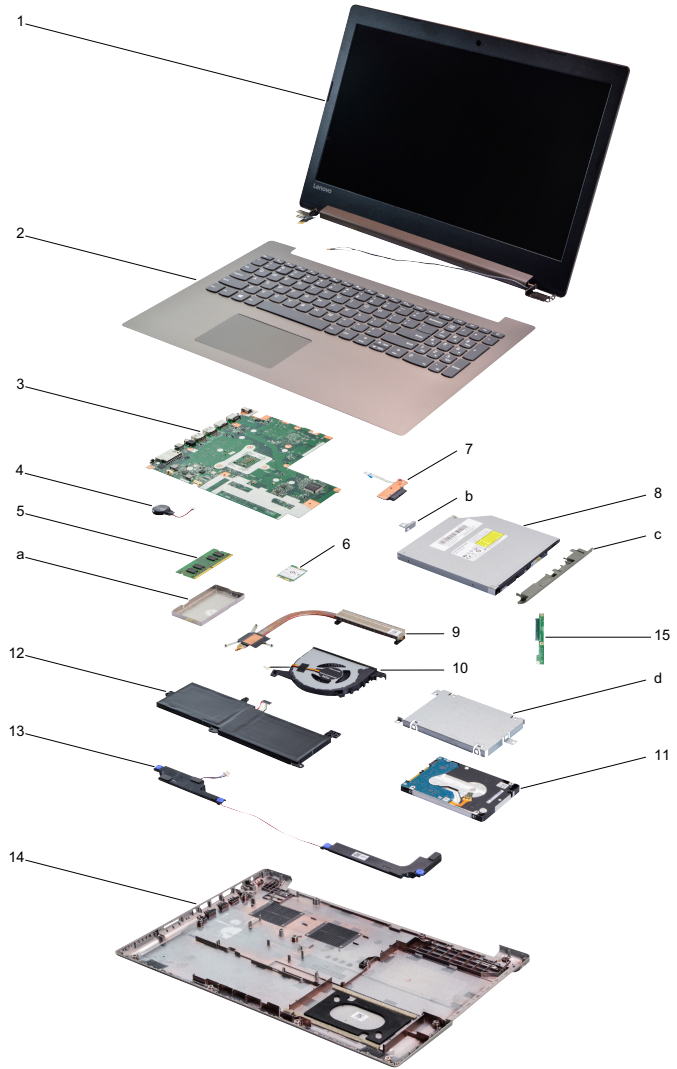
Lenovo ideapad 330-15IGM



**Lenovo ideapad 330-15ICN**



Lenovo ideapad 330-15ARR



**Lenovo ideapad 330-15ARR Touch**

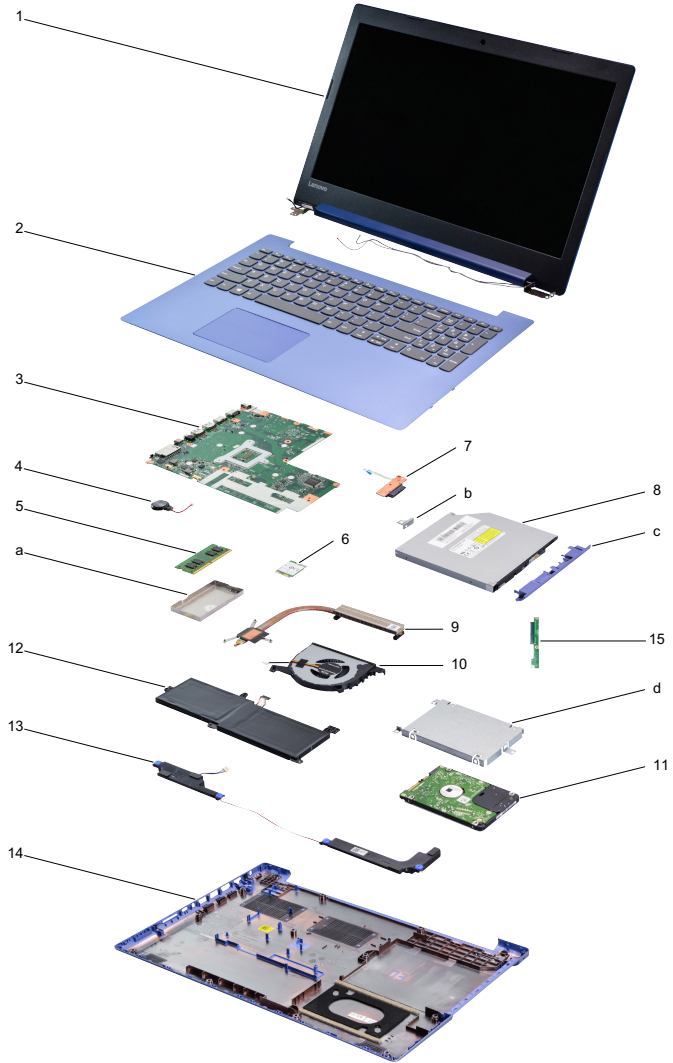


Table 5. Parts list—Overall

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
a-d	See "Miscellaneous parts" on page 85.							
1	LCD unit (see "LCD FRUs" on page 82.)							
2	UpCaseASM W/KB L81DA PG ENG	5CB0R13833	N	●				
2	UpCaseASM W/KB L81DA PG GRE	5CB0R13894	N	●				
2	UpCaseASM W/KB L81DA PG EURO ENG	5CB0R13847	N	●				
2	UpCaseASM W/KB L81DA PG KOR	5CB0R13855	N	●				
2	UpCaseASM W/KB L81DA PG TC	5CB0R13848	N	●				
2	UpCaseASM W/KB L81DA PG RUS	5CB0R13896	N	●				
2	UpCaseASM W/KB L81DA PG ARA	5CB0R13876	N	●				
2	UpCaseASM W/KB L81DA PG HBW	5CB0R13863	N	●				
2	UpCaseASM W/KB L81DA PG THAI	5CB0R13880	N	●				
2	UpCaseASM W/KB L81DA PG HIN	5CB0R13867	N	●				
2	UpCaseASM W/KB L81DA PG UKE	5CB0R13827	N	●				
2	UpCaseASM W/KB L81DA PG ITA	5CB0R13842	N	●				
2	UpCaseASM W/KB L81DA PG SPA	5CB0R13830	N	●				
2	UpCaseASM W/KB L81DA PG TUR	5CB0R13818	N	●				
2	UpCaseASM W/KB L81DA PG POR	5CB0R13895	N	●				
2	UpCaseASM W/KB L81DA PG LA SPA	5CB0R13824	N	●				
2	UpCaseASM W/KB L81DA PG FRA/ENG	5CB0R13860	N	●				
2	UpCaseASM W/KB L81DA PG NORDIC	5CB0R13816	N	●				
2	UpCaseASM W/KB L81DA PG FRA	5CB0R13899	N	●				
2	UpCaseASM W/KB L81DA PG GER	5CB0R13828	N	●				
2	UpCaseASM W/KB L81DA PG HUN	5CB0R13850	N	●				
2	UpCaseASM W/KB L81DA PG BEL	5CB0R13897	N	●				
2	UpCaseASM W/KB L81DA PG ILD	5CB0R13889	N	●				
2	UpCaseASM W/KB L81DA PG SLV	5CB0R13892	N	●				
2	UpCaseASM W/KB L81DA PG SWS	5CB0R13886	N	●				
2	UpCaseASM W/KB L81DA PG BUL	5CB0R13865	N	●				
2	UpCaseASM W/KB L81DA PG CZE/SLK	5CB0R13837	N	●				
2	UpCaseASM W/KB L81DA PG BRL	5CB0R13857	N	●				
2	UpCaseASM W/KB L81DA PG FRA/ARA	5CB0R13901	N	●				
2	UpCaseASM W/KB L81DA PG JPN	5CB0R13832	N	●				
2	UpCaseASM W/KB L81DA PG UKR	5CB0R13888	N	●				
2	UpCaseASM W/KB L81DA MG ENG	5CB0R13819	N	●				
2	UpCaseASM W/KB L81DA MG GRE	5CB0R13904	N	●				
2	UpCaseASM W/KB L81DA MG EURO ENG	5CB0R13852	N	●				
2	UpCaseASM W/KB L81DA MG KOR	5CB0R13874	N	●				
2	UpCaseASM W/KB L81DA MG TC	5CB0R13831	N	●				
2	UpCaseASM W/KB L81DA MG RUS	5CB0R13878	N	●				
2	UpCaseASM W/KB L81DA MG ARA	5CB0R13835	N	●				
2	UpCaseASM W/KB L81DA MG HBW	5CB0R13849	N	●				
2	UpCaseASM W/KB L81DA MG THAI	5CB0R13836	N	●				
2	UpCaseASM W/KB L81DA MG HIN	5CB0R13829	N	●				
2	UpCaseASM W/KB L81DA MG UKE	5CB0R13838	N	●				
2	UpCaseASM W/KB L81DA MG ITA	5CB0R13817	N	●				
2	UpCaseASM W/KB L81DA MG SPA	5CB0R13851	N	●				
2	UpCaseASM W/KB L81DA MG TUR	5CB0R13822	N	●				
2	UpCaseASM W/KB L81DA MG POR	5CB0R13882	N	●				

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81DA MG LA SPA	5CB0R13823	N	●				
2	UpCaseASM W/KB L81DA MG FRA/ENG	5CB0R13825	N	●				
2	UpCaseASM W/KB L81DA MG NORDIC	5CB0R13813	N	●				
2	UpCaseASM W/KB L81DA MG FRA	5CB0R13872	N	●				
2	UpCaseASM W/KB L81DA MG GER	5CB0R13890	N	●				
2	UpCaseASM W/KB L81DA MG HUN	5CB0R13856	N	●				
2	UpCaseASM W/KB L81DA MG BEL	5CB0R13843	N	●				
2	UpCaseASM W/KB L81DA MG ILD	5CB0R13866	N	●				
2	UpCaseASM W/KB L81DA MG SLV	5CB0R13845	N	●				
2	UpCaseASM W/KB L81DA MG SWS	5CB0R13858	N	●				
2	UpCaseASM W/KB L81DA MG BUL	5CB0R13875	N	●				
2	UpCaseASM W/KB L81DA MG CZE/SLK	5CB0R13861	N	●				
2	UpCaseASM W/KB L81DA MG BRL	5CB0R13859	N	●				
2	UpCaseASM W/KB L81DA MG FRA/ARA	5CB0R13820	N	●				
2	UpCaseASM W/KB L81DA MG JPN	5CB0R13902	N	●				
2	UpCaseASM W/KB L81DA MG UKR	5CB0R13839	N	●				
2	UpCaseASM W/KB L81DA LBU ENG	5CB0R13873	N	●				
2	UpCaseASM W/KB L81DA LBU GRE	5CB0R13900	N	●				
2	UpCaseASM W/KB L81DA LBU EUROENG	5CB0R13891	N	●				
2	UpCaseASM W/KB L81DA LBU KOR	5CB0R13868	N	●				
2	UpCaseASM W/KB L81DA LBU TC	5CB0R13893	N	●				
2	UpCaseASM W/KB L81DA LBU RUS	5CB0R13834	N	●				
2	UpCaseASM W/KB L81DA LBU ARA	5CB0R13870	N	●				
2	UpCaseASM W/KB L81DA LBU HBW	5CB0R13905	N	●				
2	UpCaseASM W/KB L81DA LBU THAI	5CB0R13862	N	●				
2	UpCaseASM W/KB L81DA LBU HIN	5CB0R13877	N	●				
2	UpCaseASM W/KB L81DA LBU UKE	5CB0R13871	N	●				
2	UpCaseASM W/KB L81DA LBU ITA	5CB0R13815	N	●				
2	UpCaseASM W/KB L81DA LBU SPA	5CB0R13840	N	●				
2	UpCaseASM W/KB L81DA LBU TUR	5CB0R13821	N	●				
2	UpCaseASM W/KB L81DA LBU POR	5CB0R13885	N	●				
2	UpCaseASM W/KB L81DA LBU LA SPA	5CB0R13826	N	●				
2	UpCaseASM W/KB L81DA LBU FRA/ENG	5CB0R13846	N	●				
2	UpCaseASM W/KB L81DA LBU NORDIC	5CB0R13903	N	●				
2	UpCaseASM W/KB L81DA LBU FRA	5CB0R13841	N	●				
2	UpCaseASM W/KB L81DA LBU GER	5CB0R13844	N	●				
2	UpCaseASM W/KB L81DA LBU HUN	5CB0R13869	N	●				
2	UpCaseASM W/KB L81DA LBU BEL	5CB0R13884	N	●				
2	UpCaseASM W/KB L81DA LBU ILD	5CB0R13864	N	●				
2	UpCaseASM W/KB L81DA LBU SLV	5CB0R13887	N	●				
2	UpCaseASM W/KB L81DA LBU SWS	5CB0R13853	N	●				
2	UpCaseASM W/KB L81DA LBU BUL	5CB0R13854	N	●				
2	UpCaseASM W/KB L81DA LBU CZE/SLK	5CB0R13814	N	●				
2	UpCaseASM W/KB L81DA LBU BRL	5CB0R13883	N	●				
2	UpCaseASM W/KB L81DA LBU FRA/ARA	5CB0R13879	N	●				
2	UpCaseASM W/KB L81DA LBU JPN	5CB0R13881	N	●				
2	UpCaseASM W/KB L81DA LBU UKR	5CB0R13898	N	●				
2	UpCaseASM W/KB L81D0 IG ENG	5CB0R40359	N	●				

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81D0 IG UKE	5CB0R40366	N	●				
2	UpCaseASM W/KB L81D0 IG ITA	5CB0R40343	N	●				
2	UpCaseASM W/KB L81D0 IG SPA	5CB0R40367	N	●				
2	UpCaseASM W/KB L81D0 IG TUR	5CB0R40369	N	●				
2	UpCaseASM W/KB L81D0 IG THAI	5CB0R40344	N	●				
2	UpCaseASM W/KB L81D0 IG POR	5CB0R40371	N	●				
2	UpCaseASM W/KB L81D0 IG LASPA	5CB0R40345	N	●				
2	UpCaseASM W/KB L81D0 IG FRA/ENG	5CB0R40354	N	●				
2	UpCaseASM W/KB L81D0 IG KOR	5CB0R40347	N	●				
2	UpCaseASM W/KB L81D0 IG TC	5CB0R40357	N	●				
2	UpCaseASM W/KB L81D0 IG RUS	5CB0R40358	N	●				
2	UpCaseASM W/KB L81D0 IG FRA	5CB0R40353	N	●				
2	UpCaseASM W/KB L81D0 IG GER	5CB0R40348	N	●				
2	UpCaseASM W/KB L81D0 IG ARA	5CB0R40373	N	●				
2	UpCaseASM W/KB L81D0 IG BRL	5CB0R40361	N	●				
2	UpCaseASM W/KB L81D0 IG JAPAN	5CB0R40350	N	●				
2	UpCaseASM W/KB L81D0 IG GRE	5CB0R40363	N	●				
2	UpCaseASM W/KB L81D0 IG HBW	5CB0R40351	N	●				
2	UpCaseASM W/KB L81D0 IG HUN	5CB0R40364	N	●				
2	UpCaseASM W/KB L81D0 IG NORDIC	5CB0R40362	N	●				
2	UpCaseASM W/KB L81D0 IG BEL	5CB0R40349	N	●				
2	UpCaseASM W/KB L81D0 IG ILD	5CB0R40360	N	●				
2	UpCaseASM W/KB L81D0 IG SLV	5CB0R40356	N	●				
2	UpCaseASM W/KB L81D0 IG SWS	5CB0R40365	N	●				
2	UpCaseASM W/KB L81D0 IG EUROENG	5CB0R40355	N	●				
2	UpCaseASM W/KB L81D0 IG CZE/SLK	5CB0R40372	N	●				
2	UpCaseASM W/KB L81D0 IG BUL	5CB0R40352	N	●				
2	UpCaseASM W/KB L81D0 IG HIN	5CB0R40370	N	●				
2	UpCaseASM W/KB L81D0 IG FRA/ARA	5CB0R40368	N	●				
2	UpCaseASM W/KB L81D0 IG UKR	5CB0R40346	N	●				
2	UpCaseASM W/KB L81DC WH ENG	5CB0R16732	N		●			
2	UpCaseASM W/KB L81DC WH GRE	5CB0R16693	N		●			
2	UpCaseASM W/KB L81DC WH EURO ENG	5CB0R16547	N		●			
2	UpCaseASM W/KB L81DC WH KOR	5CB0R16637	N		●			
2	UpCaseASM W/KB L81DC WH TC	5CB0R16530	N		●			
2	UpCaseASM W/KB L81DC WH RUS	5CB0R16529	N		●			
2	UpCaseASM W/KB L81DC WH ARA	5CB0R16543	N		●			
2	UpCaseASM W/KB L81DC WH HBW	5CB0R16629	N		●			
2	UpCaseASM W/KB L81DC WH THAI	5CB0R16643	N		●			
2	UpCaseASM W/KB L81DC WH HIN	5CB0R16606	N		●			
2	UpCaseASM W/KB L81DC WH UKE	5CB0R16581	N		●			
2	UpCaseASM W/KB L81DC WH ITA	5CB0R16687	N		●			
2	UpCaseASM W/KB L81DC WH SPA	5CB0R16657	N		●			
2	UpCaseASM W/KB L81DC WH TUR	5CB0R16634	N		●			
2	UpCaseASM W/KB L81DC WH POR	5CB0R16616	N		●			
2	UpCaseASM W/KB L81DC WH LA SPA	5CB0R16591	N		●			
2	UpCaseASM W/KB L81DC WH FRA/ENG	5CB0R16667	N		●			
2	UpCaseASM W/KB L81DC WH NORDIC	5CB0R16588	N		●			

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81DC WH FRA	5CB0R16648	N		•			
2	UpCaseASM W/KB L81DC WH GER	5CB0R16574	N		•			
2	UpCaseASM W/KB L81DC WH HUN	5CB0R16516	N		•			
2	UpCaseASM W/KB L81DC WH BEL	5CB0R16676	N		•			
2	UpCaseASM W/KB L81DC WH ILD	5CB0R16617	N		•			
2	UpCaseASM W/KB L81DC WH SLV	5CB0R16652	N		•			
2	UpCaseASM W/KB L81DC WH SWS	5CB0R16706	N		•			
2	UpCaseASM W/KB L81DC WH BUL	5CB0R16626	N		•			
2	UpCaseASM W/KB L81DC WH CZE/SLK	5CB0R16660	N		•			
2	UpCaseASM W/KB L81DC WH BRL	5CB0R16712	N		•			
2	UpCaseASM W/KB L81DC WH FRA/ARA	5CB0R16718	N		•			
2	UpCaseASM W/KB L81DC WH JPN	5CB0R16669	N		•			
2	UpCaseASM W/KB L81DC WH UKR	5CB0R16710	N		•			
2	UpCaseASM W/KB L81DC PG ENG	5CB0R16703	N		•			
2	UpCaseASM W/KB L81DC PG GRE	5CB0R16644	N		•			
2	UpCaseASM W/KB L81DC PG EURO ENG	5CB0R16651	N		•			
2	UpCaseASM W/KB L81DC PG KOR	5CB0R16690	N		•			
2	UpCaseASM W/KB L81DC PG TC	5CB0R16518	N		•			
2	UpCaseASM W/KB L81DC PG RUS	5CB0R16655	N		•			
2	UpCaseASM W/KB L81DC PG ARA	5CB0R16531	N		•			
2	UpCaseASM W/KB L81DC PG HBW	5CB0R16665	N		•			
2	UpCaseASM W/KB L81DC PG THAI	5CB0R16609	N		•			
2	UpCaseASM W/KB L81DC PG HIN	5CB0R16556	N		•			
2	UpCaseASM W/KB L81DC PG UKE	5CB0R16565	N		•			
2	UpCaseASM W/KB L81DC PG ITA	5CB0R16513	N		•			
2	UpCaseASM W/KB L81DC PG SPA	5CB0R16661	N		•			
2	UpCaseASM W/KB L81DC PG TUR	5CB0R16631	N		•			
2	UpCaseASM W/KB L81DC PG POR	5CB0R16662	N		•			
2	UpCaseASM W/KB L81DC PG LA SPA	5CB0R16659	N		•			
2	UpCaseASM W/KB L81DC PG FRA/ENG	5CB0R16550	N		•			
2	UpCaseASM W/KB L81DC PG NORDIC	5CB0R16679	N		•			
2	UpCaseASM W/KB L81DC PG FRA	5CB0R16645	N		•			
2	UpCaseASM W/KB L81DC PG GER	5CB0R16524	N		•			
2	UpCaseASM W/KB L81DC PG HUN	5CB0R16507	N		•			
2	UpCaseASM W/KB L81DC PG BEL	5CB0R16576	N		•			
2	UpCaseASM W/KB L81DC PG ILD	5CB0R16555	N		•			
2	UpCaseASM W/KB L81DC PG SLV	5CB0R16649	N		•			
2	UpCaseASM W/KB L81DC PG SWS	5CB0R16578	N		•			
2	UpCaseASM W/KB L81DC PG BUL	5CB0R16520	N		•			
2	UpCaseASM W/KB L81DC PG CZE/SLK	5CB0R16674	N		•			
2	UpCaseASM W/KB L81DC PG BRL	5CB0R16523	N		•			
2	UpCaseASM W/KB L81DC PG FRA/ARA	5CB0R16575	N		•			
2	UpCaseASM W/KB L81DC PG JPN	5CB0R16642	N		•			
2	UpCaseASM W/KB L81DC PG UKR	5CB0R16595	N		•			
2	UpCaseASM W/KB L81DC IG ENG	5CB0R16726	N		•			
2	UpCaseASM W/KB L81DC IG GRE	5CB0R16722	N		•			
2	UpCaseASM W/KB L81DC IG EURO ENG	5CB0R16716	N		•			
2	UpCaseASM W/KB L81DC IG KOR	5CB0R16567	N		•			



Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81DC IG TC	5CB0R16704	N		•			
2	UpCaseASM W/KB L81DC IG RUS	5CB0R16685	N		•			
2	UpCaseASM W/KB L81DC IG ARA	5CB0R16590	N		•			
2	UpCaseASM W/KB L81DC IG HBW	5CB0R16545	N		•			
2	UpCaseASM W/KB L81DC IG THAI	5CB0R16713	N		•			
2	UpCaseASM W/KB L81DC IG HIN	5CB0R16535	N		•			
2	UpCaseASM W/KB L81DC IG UKE	5CB0R16723	N		•			
2	UpCaseASM W/KB L81DC IG ITA	5CB0R16677	N		•			
2	UpCaseASM W/KB L81DC IG SPA	5CB0R16509	N		•			
2	UpCaseASM W/KB L81DC IG TUR	5CB0R16670	N		•			
2	UpCaseASM W/KB L81DC IG POR	5CB0R16627	N		•			
2	UpCaseASM W/KB L81DC IG LA SPA	5CB0R16600	N		•			
2	UpCaseASM W/KB L81DC IG FRA/ENG	5CB0R16587	N		•			
2	UpCaseASM W/KB L81DC IG NORDIC	5CB0R16697	N		•			
2	UpCaseASM W/KB L81DC IG FRA	5CB0R16729	N		•			
2	UpCaseASM W/KB L81DC IG GER	5CB0R16692	N		•			
2	UpCaseASM W/KB L81DC IG HUN	5CB0R16678	N		•			
2	UpCaseASM W/KB L81DC IG BEL	5CB0R16582	N		•			
2	UpCaseASM W/KB L81DC IG ILD	5CB0R16512	N		•			
2	UpCaseASM W/KB L81DC IG SLV	5CB0R16709	N		•			
2	UpCaseASM W/KB L81DC IG SWS	5CB0R16623	N		•			
2	UpCaseASM W/KB L81DC IG BUL	5CB0R16734	N		•			
2	UpCaseASM W/KB L81DC IG CZE/SLK	5CB0R16658	N		•			
2	UpCaseASM W/KB L81DC IG BRL	5CB0R16510	N		•			
2	UpCaseASM W/KB L81DC IG FRA/ARA	5CB0R16624	N		•			
2	UpCaseASM W/KB L81DC IG JPN	5CB0R16541	N		•			
2	UpCaseASM W/KB L81DC IG UKR	5CB0R16639	N		•			
2	UpCaseASM W/KB L81DC LBU ENG	5CB0R16728	N		•			
2	UpCaseASM W/KB L81DC LBU GRE	5CB0R16688	N		•			
2	UpCaseASM W/KB L81DC LBU EUROENG	5CB0R16646	N		•			
2	UpCaseASM W/KB L81DC LBU KOR	5CB0R16618	N		•			
2	UpCaseASM W/KB L81DC LBU TC	5CB0R16694	N		•			
2	UpCaseASM W/KB L81DC LBU RUS	5CB0R16620	N		•			
2	UpCaseASM W/KB L81DC LBU ARA	5CB0R16612	N		•			
2	UpCaseASM W/KB L81DC LBU HBW	5CB0R16721	N		•			
2	UpCaseASM W/KB L81DC LBU THAI	5CB0R16607	N		•			
2	UpCaseASM W/KB L81DC LBU HIN	5CB0R16700	N		•			
2	UpCaseASM W/KB L81DC LBU UKE	5CB0R16539	N		•			
2	UpCaseASM W/KB L81DC LBU ITA	5CB0R16511	N		•			
2	UpCaseASM W/KB L81DC LBU SPA	5CB0R16563	N		•			
2	UpCaseASM W/KB L81DC LBU TUR	5CB0R16701	N		•			
2	UpCaseASM W/KB L81DC LBU POR	5CB0R16635	N		•			
2	UpCaseASM W/KB L81DC LBU LA SPA	5CB0R16597	N		•			
2	UpCaseASM W/KB L81DC LBU FRA/ENG	5CB0R16672	N		•			
2	UpCaseASM W/KB L81DC LBU NORDIC	5CB0R16640	N		•			
2	UpCaseASM W/KB L81DC LBU FRA	5CB0R16717	N		•			
2	UpCaseASM W/KB L81DC LBU GER	5CB0R16656	N		•			
2	UpCaseASM W/KB L81DC LBU HUN	5CB0R16653	N		•			

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-141GM	330-151GM	330-151CN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81DC LBU BEL	5CB0R16727	N		•			
2	UpCaseASM W/KB L81DC LBU ILD	5CB0R16564	N		•			
2	UpCaseASM W/KB L81DC LBU SLV	5CB0R16628	N		•			
2	UpCaseASM W/KB L81DC LBU SWS	5CB0R16619	N		•			
2	UpCaseASM W/KB L81DC LBU BUL	5CB0R16577	N		•			
2	UpCaseASM W/KB L81DC LBU CZE/SLK	5CB0R16534	N		•			
2	UpCaseASM W/KB L81DC LBU BRL	5CB0R16569	N		•			
2	UpCaseASM W/KB L81DC LBU FRA/ARA	5CB0R16593	N		•			
2	UpCaseASM W/KB L81DC LBU JPN	5CB0R16521	N		•			
2	UpCaseASM W/KB L81DC LBU UKR	5CB0R16615	N		•			
2	UpCaseASM W/KB L81DC CHCO ENG	5CB0R16696	N		•			
2	UpCaseASM W/KB L81DC CHCO GRE	5CB0R16614	N		•			
2	UpCaseASM W/KB L81DC CHCO EUROENG	5CB0R16705	N		•			
2	UpCaseASM W/KB L81DC CHCO KOR	5CB0R16537	N		•			
2	UpCaseASM W/KB L81DC CHCO TC	5CB0R16604	N		•			
2	UpCaseASM W/KB L81DC CHCO RUS	5CB0R16560	N		•			
2	UpCaseASM W/KB L81DC CHCO ARA	5CB0R16558	N		•			
2	UpCaseASM W/KB L81DC CHCO HBW	5CB0R16647	N		•			
2	UpCaseASM W/KB L81DC CHCO THAI	5CB0R16605	N		•			
2	UpCaseASM W/KB L81DC CHCO HIN	5CB0R16514	N		•			
2	UpCaseASM W/KB L81DC CHCO UKE	5CB0R16711	N		•			
2	UpCaseASM W/KB L81DC CHCO ITA	5CB0R16601	N		•			
2	UpCaseASM W/KB L81DC CHCO SPA	5CB0R16622	N		•			
2	UpCaseASM W/KB L81DC CHCO TUR	5CB0R16504	N		•			
2	UpCaseASM W/KB L81DC CHCO POR	5CB0R16668	N		•			
2	UpCaseASM W/KB L81DC CHCO LA SPA	5CB0R16519	N		•			
2	UpCaseASM W/KB L81DC CHCO FRA/ENG	5CB0R16625	N		•			
2	UpCaseASM W/KB L81DC CHCO NORDIC	5CB0R16570	N		•			
2	UpCaseASM W/KB L81DC CHCO FRA	5CB0R16666	N		•			
2	UpCaseASM W/KB L81DC CHCO GER	5CB0R16546	N		•			
2	UpCaseASM W/KB L81DC CHCO HUN	5CB0R16675	N		•			
2	UpCaseASM W/KB L81DC CHCO BEL	5CB0R16561	N		•			
2	UpCaseASM W/KB L81DC CHCO ILD	5CB0R16633	N		•			
2	UpCaseASM W/KB L81DC CHCO SLV	5CB0R16551	N		•			
2	UpCaseASM W/KB L81DC CHCO SWS	5CB0R16583	N		•			
2	UpCaseASM W/KB L81DC CHCO BUL	5CB0R16572	N		•			
2	UpCaseASM W/KB L81DC CHCO CZE/SLK	5CB0R16538	N		•			
2	UpCaseASM W/KB L81DC CHCO BRL	5CB0R16720	N		•			
2	UpCaseASM W/KB L81DC CHCO FRA/ARA	5CB0R16557	N		•			
2	UpCaseASM W/KB L81DC CHCO JPN	5CB0R16632	N		•			
2	UpCaseASM W/KB L81DC CHCO UKR	5CB0R16542	N		•			
2	UpCaseASM W/KB L81EY WH ENG	5CB0R26546	N			•	•	•
2	UpCaseASM W/KB L81EY WH GRE	5CB0R26510	N			•	•	
2	UpCaseASM W/KB L81EY WH EURO ENG	5CB0R26491	N			•	•	
2	UpCaseASM W/KB L81EY WH KOR	5CB0R26436	N			•	•	
2	UpCaseASM W/KB L81EY WH TC	5CB0R26401	N			•	•	
2	UpCaseASM W/KB L81EY WH RUS	5CB0R26460	N			•	•	
2	UpCaseASM W/KB L81EY WH ARA	5CB0R26414	N			•	•	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81EY WH HBW	5CB0R26511	N			•	•	
2	UpCaseASM W/KB L81EY WH THAI	5CB0R26424	N			•	•	
2	UpCaseASM W/KB L81EY WH HIN	5CB0R26494	N			•	•	
2	UpCaseASM W/KB L81EY WH UKE	5CB0R26438	N			•	•	
2	UpCaseASM W/KB L81EY WH ITA	5CB0R26408	N			•	•	
2	UpCaseASM W/KB L81EY WH SPA	5CB0R26495	N			•	•	•
2	UpCaseASM W/KB L81EY WH TUR	5CB0R26521	N			•	•	
2	UpCaseASM W/KB L81EY WH POR	5CB0R26434	N			•	•	
2	UpCaseASM W/KB L81EY WH LA SPA	5CB0R26530	N			•	•	
2	UpCaseASM W/KB L81EY WH FRA/ENG	5CB0R26391	N			•	•	•
2	UpCaseASM W/KB L81EY WH NORDIC	5CB0R26396	N			•	•	
2	UpCaseASM W/KB L81EY WH FRA	5CB0R26464	N			•	•	
2	UpCaseASM W/KB L81EY WH GER	5CB0R26454	N			•	•	
2	UpCaseASM W/KB L81EY WH HUN	5CB0R26485	N			•	•	
2	UpCaseASM W/KB L81EY WH BEL	5CB0R26393	N			•	•	
2	UpCaseASM W/KB L81EY WH ILD	5CB0R26483	N			•	•	
2	UpCaseASM W/KB L81EY WH SLV	5CB0R26516	N			•	•	
2	UpCaseASM W/KB L81EY WH SWS	5CB0R26531	N			•	•	
2	UpCaseASM W/KB L81EY WH BUL	5CB0R26542	N			•	•	
2	UpCaseASM W/KB L81EY WH CZE/SLK	5CB0R26481	N			•	•	
2	UpCaseASM W/KB L81EY WH BRL	5CB0R26428	N			•	•	
2	UpCaseASM W/KB L81EY WH FRA/ARA	5CB0R26469	N			•	•	
2	UpCaseASM W/KB L81EY WH UKR	5CB0R26439	N			•	•	
2	UpCaseASM W/KB L81EY PG ENG	5CB0R26496	N			•	•	•
2	UpCaseASM W/KB L81EY PG GRE	5CB0R26448	N			•	•	
2	UpCaseASM W/KB L81EY PG EURO ENG	5CB0R26456	N			•	•	
2	UpCaseASM W/KB L81EY PG KOR	5CB0R26409	N			•	•	
2	UpCaseASM W/KB L81EY PG TC	5CB0R26444	N			•	•	
2	UpCaseASM W/KB L81EY PG RUS	5CB0R26432	N			•	•	
2	UpCaseASM W/KB L81EY PG ARA	5CB0R26405	N			•	•	
2	UpCaseASM W/KB L81EY PG HBW	5CB0R26534	N			•	•	
2	UpCaseASM W/KB L81EY PG THAI	5CB0R26471	N			•	•	
2	UpCaseASM W/KB L81EY PG HIN	5CB0R26528	N			•	•	
2	UpCaseASM W/KB L81EY PG UKE	5CB0R26503	N			•	•	
2	UpCaseASM W/KB L81EY PG ITA	5CB0R26404	N			•	•	
2	UpCaseASM W/KB L81EY PG SPA	5CB0R26425	N			•	•	•
2	UpCaseASM W/KB L81EY PG TUR	5CB0R26536	N			•	•	
2	UpCaseASM W/KB L81EY PG POR	5CB0R26447	N			•	•	
2	UpCaseASM W/KB L81EY PG LA SPA	5CB0R26489	N			•	•	
2	UpCaseASM W/KB L81EY PG FRA/ENG	5CB0R26507	N			•	•	•
2	UpCaseASM W/KB L81EY PG NORDIC	5CB0R26499	N			•	•	
2	UpCaseASM W/KB L81EY PG FRA	5CB0R26418	N			•	•	
2	UpCaseASM W/KB L81EY PG GER	5CB0R26517	N			•	•	
2	UpCaseASM W/KB L81EY PG HUN	5CB0R26544	N			•	•	
2	UpCaseASM W/KB L81EY PG BEL	5CB0R26472	N			•	•	
2	UpCaseASM W/KB L81EY PG ILD	5CB0R26508	N			•	•	
2	UpCaseASM W/KB L81EY PG SLV	5CB0R26445	N			•	•	
2	UpCaseASM W/KB L81EY PG SWS	5CB0R26477	N			•	•	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81EY PG BUL	5CB0R26465	N			•	•	
2	UpCaseASM W/KB L81EY PG CZE/SLK	5CB0R26470	N			•	•	
2	UpCaseASM W/KB L81EY PG BRL	5CB0R26545	N			•	•	
2	UpCaseASM W/KB L81EY PG FRA/ARA	5CB0R26505	N			•	•	
2	UpCaseASM W/KB L81EY PG UKR	5CB0R26388	N			•	•	
2	UpCaseASM W/KB L81EY IG ENG	5CB0R26497	N			•	•	•
2	UpCaseASM W/KB L81EY IG GRE	5CB0R26487	N			•	•	
2	UpCaseASM W/KB L81EY IG EURO ENG	5CB0R26459	N			•	•	
2	UpCaseASM W/KB L81EY IG KOR	5CB0R26397	N			•	•	
2	UpCaseASM W/KB L81EY IG TC	5CB0R26484	N			•	•	
2	UpCaseASM W/KB L81EY IG RUS	5CB0R26416	N			•	•	
2	UpCaseASM W/KB L81EY IG ARA	5CB0R26479	N			•	•	
2	UpCaseASM W/KB L81EY IG HBW	5CB0R26539	N			•	•	
2	UpCaseASM W/KB L81EY IG THAI	5CB0R26433	N			•	•	
2	UpCaseASM W/KB L81EY IG HIN	5CB0R26435	N			•	•	
2	UpCaseASM W/KB L81EY IG UKE	5CB0R26493	N			•	•	
2	UpCaseASM W/KB L81EY IG ITA	5CB0R26453	N			•	•	
2	UpCaseASM W/KB L81EY IG SPA	5CB0R26442	N			•	•	•
2	UpCaseASM W/KB L81EY IG TUR	5CB0R26490	N			•	•	
2	UpCaseASM W/KB L81EY IG POR	5CB0R26540	N			•	•	
2	UpCaseASM W/KB L81EY IG LA SPA	5CB0R26473	N			•	•	
2	UpCaseASM W/KB L81EY IG FRA/ENG	5CB0R26462	N			•	•	•
2	UpCaseASM W/KB L81EY IG NORDIC	5CB0R26532	N			•	•	
2	UpCaseASM W/KB L81EY IG FRA	5CB0R26500	N			•	•	
2	UpCaseASM W/KB L81EY IG GER	5CB0R26527	N			•	•	
2	UpCaseASM W/KB L81EY IG HUN	5CB0R26535	N			•	•	
2	UpCaseASM W/KB L81EY IG BEL	5CB0R26543	N			•	•	
2	UpCaseASM W/KB L81EY IG ILD	5CB0R26415	N			•	•	
2	UpCaseASM W/KB L81EY IG SLV	5CB0R26478	N			•	•	
2	UpCaseASM W/KB L81EY IG SWS	5CB0R26541	N			•	•	
2	UpCaseASM W/KB L81EY IG BUL	5CB0R26451	N			•	•	
2	UpCaseASM W/KB L81EY IG CZE/SLK	5CB0R26452	N			•	•	
2	UpCaseASM W/KB L81EY IG BRL	5CB0R26420	N			•	•	
2	UpCaseASM W/KB L81EY IG FRA/ARA	5CB0R26392	N			•	•	
2	UpCaseASM W/KB L81EY IG UKR	5CB0R26449	N			•	•	
2	UpCaseASM W/KB L81EY LBU ENG	5CB0R26475	N			•	•	•
2	UpCaseASM W/KB L81EY LBU GRE	5CB0R26463	N			•	•	
2	UpCaseASM W/KB L81EY LBU EUROENG	5CB0R26437	N			•	•	
2	UpCaseASM W/KB L81EY LBU KOR	5CB0R26419	N			•	•	
2	UpCaseASM W/KB L81EY LBU TC	5CB0R26518	N			•	•	
2	UpCaseASM W/KB L81EY LBU RUS	5CB0R26440	N			•	•	
2	UpCaseASM W/KB L81EY LBU ARA	5CB0R26430	N			•	•	
2	UpCaseASM W/KB L81EY LBU HBW	5CB0R26468	N			•	•	
2	UpCaseASM W/KB L81EY LBU THAI	5CB0R26537	N			•	•	
2	UpCaseASM W/KB L81EY LBU HIN	5CB0R26406	N			•	•	
2	UpCaseASM W/KB L81EY LBU UKE	5CB0R26509	N			•	•	
2	UpCaseASM W/KB L81EY LBU ITA	5CB0R26398	N			•	•	
2	UpCaseASM W/KB L81EY LBU SPA	5CB0R26513	N			•	•	•

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81EY LBU TUR	5CB0R26514	N			•	•	
2	UpCaseASM W/KB L81EY LBU POR	5CB0R26501	N			•	•	
2	UpCaseASM W/KB L81EY LBU LA SPA	5CB0R26446	N			•	•	
2	UpCaseASM W/KB L81EY LBU FRA/ENG	5CB0R26441	N			•	•	•
2	UpCaseASM W/KB L81EY LBU NORDIC	5CB0R26395	N			•	•	
2	UpCaseASM W/KB L81EY LBU FRA	5CB0R26412	N			•	•	
2	UpCaseASM W/KB L81EY LBU GER	5CB0R26461	N			•	•	
2	UpCaseASM W/KB L81EY LBU HUN	5CB0R26523	N			•	•	
2	UpCaseASM W/KB L81EY LBU BEL	5CB0R26443	N			•	•	
2	UpCaseASM W/KB L81EY LBU ILD	5CB0R26450	N			•	•	
2	UpCaseASM W/KB L81EY LBU SLV	5CB0R26407	N			•	•	
2	UpCaseASM W/KB L81EY LBU SWS	5CB0R26402	N			•	•	
2	UpCaseASM W/KB L81EY LBU BUL	5CB0R26519	N			•	•	
2	UpCaseASM W/KB L81EY LBU CZE/SLK	5CB0R26533	N			•	•	
2	UpCaseASM W/KB L81EY LBU BRL	5CB0R26504	N			•	•	
2	UpCaseASM W/KB L81EY LBU FRA/ARA	5CB0R26482	N			•	•	
2	UpCaseASM W/KB L81EY LBU UKR	5CB0R26417	N			•	•	
2	UpCaseASM W/KB L81EY CHCO ENG	5CB0R26498	N			•	•	•
2	UpCaseASM W/KB L81EY CHCO GRE	5CB0R26547	N			•	•	
2	UpCaseASM W/KB L81EY CHCO EUROENG	5CB0R26389	N			•	•	
2	UpCaseASM W/KB L81EY CHCO KOR	5CB0R26422	N			•	•	
2	UpCaseASM W/KB L81EY CHCO TC	5CB0R26457	N			•	•	
2	UpCaseASM W/KB L81EY CHCO RUS	5CB0R26426	N			•	•	
2	UpCaseASM W/KB L81EY CHCO ARA	5CB0R26529	N			•	•	
2	UpCaseASM W/KB L81EY CHCO HBW	5CB0R26525	N			•	•	
2	UpCaseASM W/KB L81EY CHCO THAI	5CB0R26548	N			•	•	
2	UpCaseASM W/KB L81EY CHCO HIN	5CB0R26506	N			•	•	
2	UpCaseASM W/KB L81EY CHCO UKE	5CB0R26492	N			•	•	
2	UpCaseASM W/KB L81EY CHCO ITA	5CB0R26467	N			•	•	
2	UpCaseASM W/KB L81EY CHCO SPA	5CB0R26512	N			•	•	•
2	UpCaseASM W/KB L81EY CHCO TUR	5CB0R26488	N			•	•	
2	UpCaseASM W/KB L81EY CHCO POR	5CB0R26410	N			•	•	
2	UpCaseASM W/KB L81EY CHCO LA SPA	5CB0R26486	N			•	•	
2	UpCaseASM W/KB L81EY CHCO FRA/ENG	5CB0R26480	N			•	•	•
2	UpCaseASM W/KB L81EY CHCO NORDIC	5CB0R26520	N			•	•	
2	UpCaseASM W/KB L81EY CHCO FRA	5CB0R26458	N			•	•	
2	UpCaseASM W/KB L81EY CHCO GER	5CB0R26455	N			•	•	
2	UpCaseASM W/KB L81EY CHCO HUN	5CB0R26502	N			•	•	
2	UpCaseASM W/KB L81EY CHCO BEL	5CB0R26399	N			•	•	
2	UpCaseASM W/KB L81EY CHCO ILD	5CB0R26466	N			•	•	
2	UpCaseASM W/KB L81EY CHCO SLV	5CB0R26400	N			•	•	
2	UpCaseASM W/KB L81EY CHCO SWS	5CB0R26522	N			•	•	
2	UpCaseASM W/KB L81EY CHCO BUL	5CB0R26394	N			•	•	
2	UpCaseASM W/KB L81EY CHCO CZE/SLK	5CB0R26427	N			•	•	
2	UpCaseASM W/KB L81EY CHCO BRL	5CB0R26474	N			•	•	
2	UpCaseASM W/KB L81EY CHCO FRA/ARA	5CB0R26429	N			•	•	
2	UpCaseASM W/KB L81EY CHCO UKR	5CB0R26431	N			•	•	
2	UpCaseASM W/KB L81D2 BW JP IMR	5CB0R34271	N				•	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
2	UpCaseASM W/KB L81D2 PG JP IMR	5CB0R34272	N				•	
2	UpCaseASM W/KB L81D2 IG JP IMR	5CB0R34264	N				•	
2	UpCaseASM W/KB L81D2 LBU JP IMR	5CB0R34266	N				•	
2	UpCaseASM W/KB L81D2 CHCO JP IMR	5CB0R34282	N				•	
3	MB L 81D0 N5000 UMA NO RAM WIN	5B20R33574	N	•				
3	MB L 81D0 N5000 UMA NO RAM NOK	5B20R33569	N	•				
3	MB L 81D0 N4100 UMA NO RAM WIN	5B20R33570	N	•				
3	MB L 81D0 N4100 UMA NO RAM NOK	5B20R33572	N	•				
3	MB L 81D0 N4000 UMA NO RAM WIN	5B20R33571	N	•				
3	MB L 81D0 N4000 UMA NO RAM NOK	5B20R33573	N	•				
3	MBL 81D1 N4000 UMA WIN	5B20R33801	N		•			
3	MBL 81D1 N4000 UMA NOK	5B20R33806	N		•			
3	MBL 81D1 N4000 RADEON530_2G WIN	5B20R33803	N		•			
3	MBL 81D1 N4000 RADEON530_2G NOK	5B20R33811	N		•			
3	MBL 81D1 N4100 RADEON530_2G WIN	5B20R33810	N		•			
3	MBL 81D1 N4100 RADEON530_2G NOK	5B20R33807	N		•			
3	MBL 81D1 N4100 UMA WIN	5B20R33808	N		•			
3	MBL 81D1 N4100 UMA NOK	5B20R33804	N		•			
3	MBL 81D1 N5000 RADEON530_2G WIN	5B20R33802	N		•			
3	MBL 81D1 N5000 RADEON530_2G NOK	5B20R33809	N		•			
3	MBL 81D1 N5000 UMA WIN	5B20R33812	N		•			
3	MBL 81D1 N5000 UMA NOK	5B20R33805	N		•			
3	MBL81EY I38121U N540 V2GD4G WIN	5B20R26403	N			•		
3	MBL81EY I38121U N540 V2GD4G NOK	5B20R26526	N			•		
3	MBL81D2 R72700U UMA NRAM WIN	5B20R34286	N				•	
3	MBL81D2 R72700U UMA NRAM NOK	5B20R34262	N				•	
3	MBL81D2 R52500U UMA NRAM WIN	5B20R34265	N				•	
3	MBL81D2 R52500U UMA NRAM NOK	5B20R34284	N				•	
3	MBL81D2 R52500U UMA D4G WIN	5B20R34278	N				•	
3	MBL81D2 R52500U UMA D4G NOK	5B20R34285	N				•	
3	MBL81D2 R72700U UMA D4G WIN	5B20R34274	N				•	
3	MBL81D2 R72700U UMA D4G NOK	5B20R34275	N				•	
3	MBL81D2 R72700U N540V2GD4G WIN	5B20R34276	N				•	
3	MBL81D2 R72700U N540V2GD4G NOK	5B20R34280	N				•	
3	MBL81D2 R52500U N540V2GD4G WIN	5B20R34281	N				•	
3	MBL81D2 R52500U N540V2GD4G NOK	5B20R34273	N				•	
3	MBL81D2 R52500U N540V2GNRAM WIN	5B20R34279	N				•	
3	MBL81D2 R52500U N540V2GNRAM NOK	5B20R34269	N				•	
3	MBL81D2 R72700U N540V2G NR WIN	5B20R34270	N				•	
3	MBL81D2 R72700U N540V2G NR NOK	5B20R34263	N				•	
3	MBL81D3 R52500U UMA NRAM WIN	5B20R34194	N					•
3	MBL81D3 R52500U UMA NRAM NOK	5B20R34195	N					•
3	MBL81D3 R52500U UMA D4G WIN	5B20R34192	N					•
3	MBL81D3 R52500U UMA D4G NOK	5B20R34193	N					•
4	RTC BATTERY L80XK	5B10N82213	N	•	•	•	•	•
5	RAM, 4GB DDR4 26S M471A5244CB0-CTD	SM30N76487	N	•	•	•	•	•
5	RAM, 4GB D4 26S HMA851S6CJR6N-VKNO	SM30K25310	N	•	•	•	•	•
5	RAM, 4GB D4 26S MTA4ATF51264HZ-2G6E1	SM30K25318	N	•	•	•	•	•

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
5	RAM, 4GB D4 26S RMSA3270ME86H9F-2666	SM30K25316	N	●	●	●	●	●
5	RAM, 8GB DDR4 26S M471A1K43CB1-CTD	SM30N76488	N	●	●	●	●	●
5	RAM, 8GB D4 26S HMA81GS6CJR8N-VKN0	SM30K25311	N	●	●	●	●	●
5	RAM, 8GB D4 26S MTA8ATF1G64HZ-2G6E1	SM30N76493	N	●	●	●	●	●
5	RAM, 8GB D4 26S RMSA3260ME78HAF-2666	SM30N76498	N	●	●	●	●	●
5	RAM, M471A5644EB0-CRC	SM30G16500	N				●	●
5	RAM, HMA425S6BJR6N-UHNO	SM30K25304	N				●	●
5	RAM, MTA4ATF25664HZ-2G3B1	SM30G16502	N				●	●
5	RAM, RMSA3270MB76H8F-2400	SM30G16503	N				●	●
5	RAM, 16GB DDR4 26S M471A2K43CB1-CTD	SM30N76489	N				●	●
5	RAM, 16GB D4 26S HMA82GS6CJR8N-VKN0	SM30K25312	N				●	●
5	RAM, 16GB D4 26S MTA16ATF2G64HZ-2G6E1	SM30N76494	N				●	●
5	RAM, 16GB D4 26S RMSA3300ME78HBF-2666	SM30N76499	N				●	●
6	WLAN, Intel 3165 1x1AC+BT PCIE M.2 WLAN	SW10H24486	N	●	●	●		
6	WLAN, RTL8821CE 1x1AC+BT4.2 Combo M.2 BS	SW10K97462	N	●	●	●	●	●
6	WLAN, Ltn NFA435A 1x1AC+BT PCIE M.2 WLAN	SW10K97461	N	●	●	●	●	●
7	ODD BOARD NSB241 L80XL	5C50N86565	N		●			
7	ODD BOARD W/FFC L81EY	5C50R26476	N			●		
7	ODD BOARD W/FFC L81D2	5C50R34268	N				●	●
8	DUMMY ODD 81DA PG	5M20R13432	*	●	●	●	●	●
8	DUMMY ODD WH L80XK	5M20N82196	*		●	●	●	●
8	DUMMY ODD L81DC MN BU	5M20R16682	*		●	●	●	●
8	DUMMY ODD L81DC CHOC	5M20R16715	*		●	●	●	●
8	DUMMYODDFor2ndHDD 81DA PG	5M20R13443	*				●	●
8	DUMMYODDFor2ndHDD L81DC MN BU	5M20R16522	*				●	●
8	DUMMYODDFor2ndHDD L81DC CHOC	5M20R16515	*				●	●
8	DUMMYODD for 2nd HDD WH L80XK	5M20N82228	*				●	●
8	DUMMY ODD 81DA MG	5M20R13428	*	●				
8	DUMMY ODD 81DA MN-BU	5M20R13442	*	●				
8	ODD, HLDS GUE0N 9.0mm Slim Tray Rambo ODD	5DX0J46488	*	●	●	●	●	●
8	ODD, PLDS DA-8AESH 9.0 mm Slim Tray Rambo ODD	5DX0L08424	*	●	●	●	●	●
8	ODD, HL GUE1N 9.0mm DVDWriter WOB	SDX0K84177	*	●	●	●	●	●
8	ODD, ODD Bezel GRAPHITE GREY		*	●	●	●	●	●
8	ODD, ODD Bezel WHITE		*	●	●	●	●	●
8	ODD, ODD Bezel LIGHT MINT GREEN		*	●				
8	ODD, ODD Bezel LIGHT BLUE	SM20N19096	*	●	●	●	●	●
8	ODD, ODD Bezel LIGHT CHOCOLATE		*		●	●	●	●
8	ODD, ODD Bezel Lilac		*		●			
8	ODD, ODD Bezel Light Coral Red		*		●			
8	ODD, DUMMY ODD COOL GREY		*	●				
8	ODD, DUMMY ODD GREEN		*	●				
8	ODD, DUMMY ODD ICE BLUE		*	●				
8	ODD, DUMMY ODD GRAPHITE GREY		*		●	●	●	●
8	ODD, DUMMY ODD WHITE	SM20N04878	*		●	●	●	●
8	ODD, DUMMY ODD LIGHT BLUE		*		●	●	●	●
8	ODD, DUMMY ODD LIGHT CHOCOLATE		*		●	●	●	●
8	ODD, DUMMY ODD Lilac		*		●			
8	ODD, DUMMY ODD Light Coral Red		*		●			



Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
8	ODD, HDD Holder in ODD(W/O HDD)		*	●				
8	ODD, DUMMY ODD FOR 2ND HDD GRAPHITE GREY		*				●	
8	ODD, DUMMY ODD FOR 2ND HDD WHITE		*				●	
8	ODD, DUMMY ODD FOR 2ND HDD LIGHT BLUE		*				●	
8	ODD, DUMMY ODD FOR 2ND HDD LIGHT CHOCOLATE	SM20P53871	*				●	
8	ODD, HDD Holder in ODD(W/O HDD) GRAPHITE GREY		*				●	●
8	ODD, HDD Holder in ODD(W/O HDD) WHITE		*				●	●
8	ODD, HDD Holder in ODD(W/O HDD) LIGHT BLUE		*				●	●
8	ODD, HDD Holder in ODD(W/O HDD) LIGHT CHOCOLATE		*				●	●
8	ODD, DUMMY ODD FOR 2ND HDD GRAPHITE GREY		*				●	●
8	ODD, DUMMY ODD FOR 2ND HDD WHITE	SM20N04880	*				●	●
8	ODD, DUMMY ODD FOR 2ND HDD LIGHT BLUE		*				●	●
8	ODD, DUMMY ODD FOR 2ND HDD LIGHT CHOCOLATE		*				●	●
9	THERMAL MODULE UMA L80XQ	5H40P19725	N	●	●			
9	THERMAL MODULE DIS L80XQ	5H40P19726	N		●			
9	THERMALMODULE DIS W/MYLAR L81EY	5H40R26413	N			●		
9	THERMALMODULE UMA L81D2	5H40R34277	N				●	●
9	THERMALMODULE DIS W/MYLAR L81D2	5H40R34267	N				●	
9	THERMAL MODULE AL mylar 81EY	5T10R26421	N			●	●	
10	FAN DC5V L81EY	5F10R26423	N			●	●	●
10	FAN DC5V L80XK	5F10N82225	N		●			
11	HDD, Seagate ST500LM030 500GB 2.5" SATA 7mm 5400rpm HDD	SH20P18518	N	●	●	●	●	●
11	HDD, MQ01ABF050 6G 7mm 5.4K 500G HDD	5H20L34560	N	●	●	●	●	●
11	HDD, WD5000LPCX-24VHAT0 7mm 5400rpm 500G HDD	5H20J35762	N	●	●	●	●	●
11	HDD, Seagate ST1000LM035 1T 2.5" 7mm 5400rpm HDD	5H20L22184	N	●	●	●	●	●
11	HDD, WD WD10SPZX-24Z10T0 1TB 2.5" SATA 7mm 5400rpm HDD for ideapad	SH20P18627	N	●	●	●	●	●
11	HDD, Toshiba MQ04ABF100 1TB 2.5" SATA 7mm 5400rpm HDD	SH20M75978	N	●	●	●		
11	HDD, ST Rosewood2D 7mm 2TB HDD	5H20M37521	N	●	●	●	●	●
11	HDD, Toshiba MQ04ABF100 1TB 2.5" SATA 7mm 5400rpm HDD	SHD0P03171	N				●	●
11	HDD, HDD ASSY Parts build in ODD	SM20N19794	N				●	●
11	HDD, HDD ASSY Parts build in System	SM20N19795	N				●	●
12	Battery, 330G LG L17L2PF0 7.6V35Wh2cell bty	5B10Q41212	N			●	●	
12	Battery, 330G SP/A L17M2PF0 7.5V35Wh2cell bty	5B10Q41211	N			●	●	
12	Battery, 320 SP/A L16M2PB1 7.5V30Wh2cell bty	5B10M86148	N	●	●			
12	Battery, 320 SP/B L17M2PB7 7.56V30Wh2cell bty	5B10Q71253	N	●	●			
12	Battery, 320 CP/C L16C2PB2 7.6V30Wh2cell bty	5B10M88058	N	●	●			
12	Battery, 330G LG L17L2PF1 7.56V30Wh2cell bty	5B10Q41213	N	●	●			
12	Battery, 320 SP/A L16M2PB2 7.5V35Wh2cell bty	5B10M86149	N	●	●			
12	Battery, 320 CP/C L16C2PB1 7.6V35Wh2cell bty	5B10M88059	N	●	●			
12	Battery, 320 SY L16S2PB1 7.6V35Wh2cell bty	5B10M90490	N	●	●			



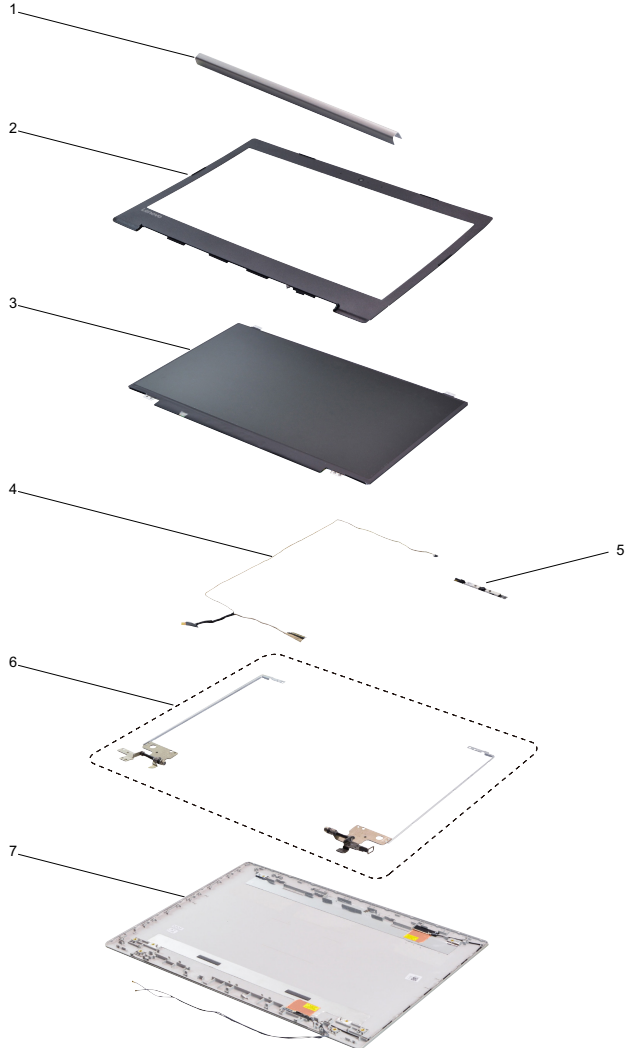
Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
12	Battery, 320 LG L16L2PB3 7.6V35Wh2cell bty	5B10M91443	N	•	•			
12	Battery, 330G SD/A L17D2PF1 7.68V30Wh2cellbty	5B10Q62138	N				•	
12	Battery, 330G SP/B L17M2PF1 7.6V30Wh2cellbty	5B10Q62140	N				•	
12	Battery, 330G SP/A L17M2PF2 7.68V30Wh2cellbty	5B10Q62139	N				•	
13	SPEAKERINT L80XK L+R FOR 14T	5SB0P38021	N	•				
13	SPEAKERINT L80XL L+R FOR 15T	5SB0P38019	N		•	•	•	•
14	LOWER CASE 81D0 GRAPHITE GREY	5CB0R33587	N	•				
14	LOWER CASE 81D0 LIGHT MINT GREEN	5CB0R33586	N	•				
14	LOWER CASE 81D0 LIGHT BLUE	5CB0R33588	N	•				
14	Lower Case L80XR WHITE TEX	5CB0P20656	N		•			
14	LOWER CASE 81D1 GRAPHITE GREY	5CB0R33799	N		•			
14	LOWER CASE 81D1 LIGHT BLUE	5CB0R33798	N		•			
14	LOWER CASE 81D1 LIGHT CHOCOLATE	5CB0R33800	N		•			
14	LOWER CASE L81EY 15T WHITE	5CB0R26515	N			•	•	•
14	LOWER CASE L81EY 15T GRAPHITE GREY	5CB0R26538	N			•	•	•
14	LOWER CASE L81EY 15T LIGHT BLUE	5CB0R26390	N			•	•	•
14	LOWER CASE L81EY 15T CHOC	5CB0R26411	N			•	•	•
15	HDD BOARD FOR 2ND HDD L81D2	5C50R34283	N				•	•
—	AC adapter (see “AC adapters” on page 85).							

## **LCD FRUs**

In Lenovo ideapad 330-14IGM/Lenovo ideapad 330-15IGM/  
Lenovo ideapad 330-15ICN/Lenovo ideapad 330-15ARR/  
Lenovo ideapad 330-15ARR Touch,  
there are following types of LCDs.

- “14.0-in. HD/FHD LED”



- “15.6-in. HD/FHD LED”

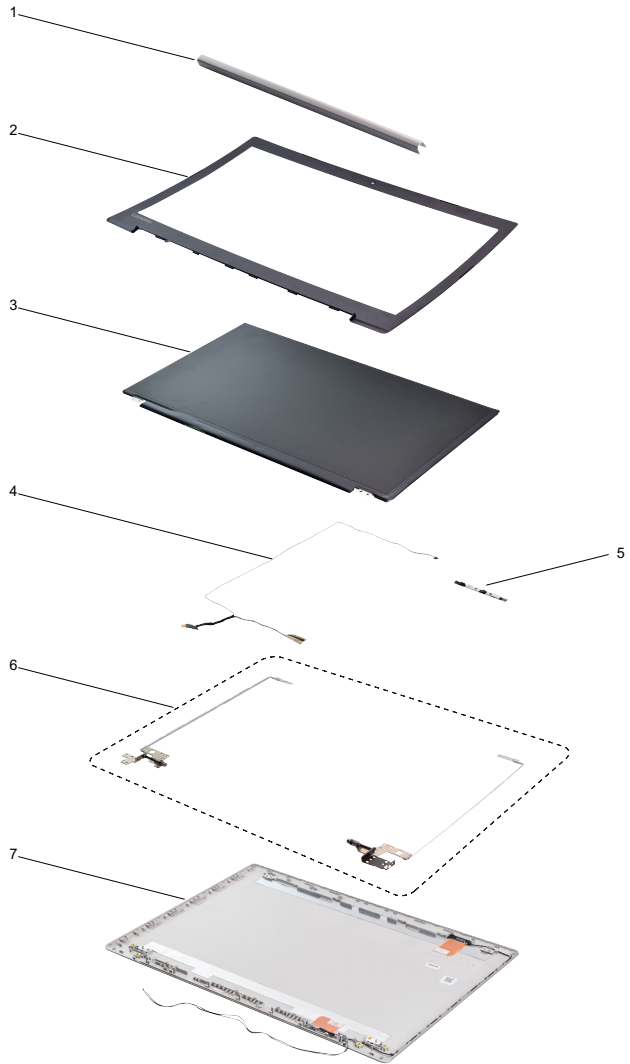


Table 6. Parts list—LCD FRUs

No.	FRU	FRU no.	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
1	HINGECAP15TL80XL OB PT	5CB0N86462	N		●	●	●	●
1	HINGECAP14TL80XK PG PT	5CB0N82240	N	●				
1	HINGECAP14TL80XK OB PT	5CB0N82275	N	●				
1	HINGE CAP 81DA 14T MG	5CB0R13435	N	●				
1	HINGECAP15TL80XL BW PT	5CB0N86453	N		●	●	●	●
1	HINGECAP15TL80XL PG PT	5CB0N86380	N		●	●	●	●
1	HINGE CAP L81DC 15T MN BU	5CB0R16699	N		●	●	●	●
1	HINGE CAP L81DC 15T CHOC	5CB0R16636	N		●	●	●	●
1	HINGE CAP 81DA 14T MN-BU	5CB0R13433	N	●				
2	LCDBUEZELL80XKTEX14TBKWCAMMYMAGNET	5B30N82311	N	●				
2	LCDBUEZELL80XKTEX15TBKWCAMMYMAGNET	5B30N86341	N		●	●		
2	LCDBEZEL ASSY L81D2 15TBLACK	5B30R42338	N				●	●
3	Panel, AU B156XTN07.1 3A HDT AG S NB	5D10H52713	N		●	●	●	
3	Panel, INX N156BGA-EA2 HDT AG S NB	5D10K81086	N		●	●	●	
3	Panel, BO NT156WHM-N42 V8.1 HDT AG S NB	5D10R26920	N		●	●	●	
3	Panel, AU B156HTN03.8 0C FHDT AG S NB	5D10L08702	N		●	●	●	
3	Panel, IN N156HGA-EAB FHDT AG S NB	5D10K93435	N		●	●	●	
3	Panel, BO NT156FHM-N41V8.1 FHDT AG S NB	5D10Q90268	N		●	●	●	
3	Panel, AU B140XTN02.E HWCA HD AG S NB	5D10P54235	N	●				
3	Panel, INX N140BGA-EA3 C1 HD AG S NB	5D10K85755	N	●				
3	Panel, IV M140NWR6 R1 HDT AG S NB	5D10K81644	N	●				
3	Panel, BO NT140WHM-N41 HDT AG S NB	5D10K81099	N	●				
3	Panel, AU B140HTN01.E 2A FHDT AG S NB	5D10L08701	N	●				
3	Panel, IN N140HGE-EAA C4 FHDT AG S NB	5D10K93439	N	●				
3	Panel, BO NT140FHM-N41 FHDT AG S NB	5D10L01874	N	●				
3	Panel, AU B156XTK01.0 5A HDT G S NB(T)	5D10M41896	N					●
3	Panel, IN N156BGN-E41 HDT G S NB(T)	5D10K81098	N					●
4	EDP Cable L80XK FOR 14T	5C10P38018	N	●				
4	EDP Cable L80XL FOR 15T	5C10P38020	N		●	●	●	
4	EDP Cable L80XN FOR 15T TOUCH	5C10P38017	N					●
5	CAMERA 81DA 720P W/MIC	5C20R13441	N	●	●	●	●	●
5	CAMERA L80XK 0.3M W1 MIC	5C20N82280	N	●	●	●	●	●
6	HINGE LR 14T L80XK	5H50N82309	N	●				
6	HINGE LR 15T L80XL	5H50N86361	N		●	●	●	
7	LCDCOVERL80XK14T PG PTANTE EDP	5CB0N82367	N	●				
7	LCD Cover 81DA 14T MG	5CB0R13430	N	●				
7	LCD Cover 81DA 14T MN-BU	5CB0R13434	N	●				
7	LCDCOVERL80XK14T OB PTANTE EDP	5CB0N82366	N	●				
7	LCDCOVERL80XL15T BW PTANTE EDP	5CB0N86561	N		●	●	●	
7	LCDCOVERL80XL15T PG PTANTE EDP	5CB0N86313	N		●	●	●	
7	LCDCOVERL80XL15T OB PTANTE EDP	5CB0N86327	N		●	●	●	
7	LCD Cover L81DC 15T MN BU	5CB0R16544	N		●	●	●	
7	LCD Cover L81DC 15T CHOC	5CB0R16599	N		●	●	●	
7	LCDCOVERL80XNTOUCH OB PTANTE EDP	5CB0N86888	N					●
7	LCDCOVERL80XNTOUCH PG PTANTE EDP	5CB0N86847	N					●
7	LCDCOVERL80XNTOUCH BW PTANTE EDP	5CB0N86850	N					●
7	LCD Cover L81DH 15T MN BU TH	5CB0R19785	N					●
7	LCD Cover L81DH 15T CHOC TH	5CB0R19796	N					●

## Miscellaneous parts

Table 7. Parts list—Miscellaneous parts

FRU	P/N	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
System miscellaneous parts:							
• (a) RAM EMI SHIELDING ASSYL80YL	5S60N98522	N	●	●		●	●
• (b) ODD BRACKET L80SL	5B40L35764	*	●	●	●	●	●
• (c) ODD Bezel 81DA PG	5B30R13437	*	●	●	●	●	●
• (c) ODD Bezel 81DA MG	5B30R13431	*	●				
• (c) ODD Bezel 81DA MN-BU	5B30R13436	*	●				
• (c) ODD BEZEL L80XK WH	5B30N82354	*		●	●	●	●
• (c) ODD Bezel L81DC MN BU	5B30R16536	*		●	●	●	●
• (c) ODD Bezel L81DC CHOC	5B30R16580	*		●	●	●	●
• (d) HDD BRACKET L80XK	5B40N82219	N	●	●			
• (d) HDD BRACKET L81EY	5B40R26524	N			●	●	●

**Note:** Italicized letters in parentheses are references to the exploded view in "Overall" on page 64.

## AC adapters

Table 8. Parts list—AC adapters

FRU	P/N	CRU ID.	330-14IGM	330-15IGM	330-15ICN	330-15ARR	330-15ARR Touch
Delta ADP-45DW A 20V2.25A COO	SA10M42800	*	●	●		●	
Delta ADP-45DW J 20V2.25A COO	SA10M42721	*	●	●		●	
Delta ADP-45DW B 20V2.25A COO	SA10M42785	*	●	●			●
Delta ADP-45DW D 20V2.25A COO	SA10M42696	*	●	●		●	
Delta ADP-45DW H 20V2.25A COO	SA10M42699	*	●	●		●	
Delta ADP-45DW G 20V2.25A COO	SA10M42774	*	●	●		●	
Delta ADP-45DW E 20V2.25A COO	SA10M42748	*	●	●		●	
Delta ADP-45DW C 20V2.25A COO	SA10M42700	*	●	●		●	
Delta ADP-45DW K 20V2.25A COO	SA10M42804	*	●	●		●	
Liteon PA-1450-55LN 20V2.25A COO	SA10M42711	*	●	●		●	
Liteon PA-1450-55LG 20V2.25A COO	SA10M42709	*	●	●		●	
Liteon PA-1450-55LL 20V2.25A COO	SA10M42742	*	●	●			●
Liteon PA-1450-55LK 20V2.25A COO	SA10M42530	*	●	●		●	
Liteon PA-1450-55LI 20V2.25A COO	SA10M42734	*	●	●		●	
Liteon PA-1450-55LR 20V2.25A COO	SA10M42701	*	●	●		●	
Liteon PA-1450-55LS 20V2.25A COO	SA10M42736	*	●	●		●	
Liteon PA-1450-55LU 20V2.25A COO	SA10M42743	*	●	●		●	
Liteon PA-1450-55LZ 20V2.25A COO	SA10M42752	*	●	●		●	
Chicony ADL45WCA 20V2.25A COO	SA10M42726	*	●	●		●	
Chicony ADL45WCB 20V2.25A COO	SA10M42737	*	●	●		●	
Chicony ADL45WCC 20V2.25A COO	SA10M42697	*	●	●			●
Chicony ADL45WCD 20V2.25A COO	SA10M42790	*	●	●		●	
Chicony ADL45WCK 20V2.25A COO	SA10M42768	*	●	●		●	
Chicony ADL45WCE 20V2.25A COO	SA10M42706	*	●	●		●	
Chicony ADL45WCF 20V2.25A COO	SA10M42746	*	●	●		●	
Chicony ADL45WCG 20V2.25A COO	SA10M42792	*	●	●		●	
Chicony ADL45WCH 20V2.25A COO	SA10M42786	*	●	●		●	

Table 8. Parts list—AC adapters (continued)

FRU	P/N	CRU ID.	330-141GM	330-151GM	330-151CN	330-15ARR	330-15ARR Touch
Delta ADLX65CDGC2A 20V3.25A COO	SA10M42764	*		•	•	•	
Delta ADLX65CDGG2A 20V3.25A COO	SA10M42758	*		•	•	•	
Delta ADLX65CDGU2A 20V3.25A COO	SA10M42765	*		•	•	•	
Delta ADLX65CDGK2A 20V3.25A COO	SA10M42745	*		•	•	•	
Delta ADLX65CDGI2A 20V3.25A COO	SA10M42796	*		•	•	•	
Delta ADLX65CDGR2A 20V3.25A COO	SA10M42775	*		•	•	•	
Delta ADLX65CDGA2A 20V3.25A COO	SA10M42718	*		•	•	•	
Delta ADLX65CDGE2A 20V3.25A COO	SA10M42794	*		•	•	•	
Delta ADLX65CDGB2A 20V3.25A COO	SA10M42769	*		•	•	•	
Liteon ADLX65CLGC2A 20V3.25A COO	SA10M42791	*		•	•	•	
Liteon ADLX65CLGG2A 20V3.25A COO	SA10M42714	*		•	•	•	
Liteon ADLX65CLGU2A 20V3.25A COO	SA10M42725	*		•	•	•	
Liteon ADLX65CLGK2A 20V3.25A COO	SA10M42531	*		•	•	•	
Liteon ADLX65CLGI2A 20V3.25A COO	SA10M42753	*		•	•	•	
Liteon ADLX65CLGR2A 20V3.25A COO	SA10M42738	*		•	•	•	
Liteon ADLX65CLGA2A 20V3.25A COO	SA10M42793	*		•	•	•	
Liteon ADLX65CLGE2A 20V3.25A COO	SA10M42740	*		•	•	•	
Liteon ADLX65CLGB2A 20V3.25A COO	SA10M42817	*		•	•	•	
Chicony ADLX65CCGC2A 20V3.25A COO	SA10M42805	*		•	•	•	
Chicony ADLX65CCGG2A 20V3.25A COO	SA10M42815	*		•	•	•	
Chicony ADLX65CCGU2A 20V3.25A COO	SA10M42762	*		•	•	•	
Chicony ADLX65CCGK2A 20V3.25A COO	SA10M42735	*		•	•	•	
Chicony ADLX65CCGI2A 20V3.25A COO	SA10M42751	*		•	•	•	
Chicony ADLX65CCGR2A 20V3.25A COO	SA10M42704	*		•	•	•	
Chicony ADLX65CCGA2A 20V3.25A COO	SA10M42766	*		•	•	•	
Chicony ADLX65CCGE2A 20V3.25A COO	SA10M42760	*		•	•	•	
Chicony ADLX65CCGB2A 20V3.25A COO	SA10M42707	*		•	•	•	

## Screws

Table 9. Parts list—Screws

FRU	P/N	CRU ID.	330-141GM	330-151GM	330-151CN	330-15ARR	330-15ARR Touch
SCREW L80T6 MM 2.5D 2.5L K 8.0D NI	5S10L45749	N	•	•	•	•	•
SCREW L MM1.98D3LK4.5DNINL0.4T	5S10K25435	N	•	•	•	•	•
SCREWL80XKMM2.5D7.0LK4.5D0.8T ZKNL	5S10N82242	N	•	•	•	•	•
Screw L Y700-15ACZ Hinge base	5S10K26861	N	•	•	•	•	•
ACLU1 ScrewD-C/D-KB/ODD-D-MB-KB/FAN	90205118	N	•	•	•	•	•
SCREWL80XKMM2.5D7.0LK4.5D0.8T NINL	5S10N82325	N		•	•	•	•
AILZA Screw M M 3.0D 3.0L K 4.9D	90203986	N			•	•	•

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