

Lenovo ideapad 330

ideapad 330-15ICH

ideapad 330H-15ICH

ideapad 330L-15ICH

ideapad 330E-15ICH

ideapad 330R-15ICH

ideapad 330-17ICH

ideapad 330H-17ICH

ideapad 330L-17ICH

ideapad 330E-17ICH

ideapad 330R-17ICH

Hardware Maintenance Manual

Lenovo[™]

Note:

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

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About this manual

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

**Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad
330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH**

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

Use this manual to troubleshoot problems.

The manual is divided into the following sections:

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

Important:

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

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

Safety information

This chapter presents the following safety information that you need to get familiar with before you service a Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH computer:

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

General safety

Follow these rules below to ensure general safety:

- Observe a good housekeeping in the area where the machines are put during and after the maintenance.
- When lifting any heavy object:
 1. Make sure that you can stand safely without slipping.
 2. Distribute the weight of the object equally between your feet.
 3. Use a slow lifting force. Never move suddenly or twist when you attempt to lift it.
 4. Lift it by standing or pushing up with your leg muscles; this action could avoid the strain from the muscles in your back. Do not attempt to lift any object that weighs more than 16 kg (35 lb) or that you think is too heavy for you.
- Do not perform any action that causes hazards to the customer, or that makes the machine unsafe.
- Before you start the machine, make sure that other service representatives and the customer are not in a hazardous position.
- Please remove covers and other parts in a safe place, away from all personnel, while you are servicing the machine.
- Keep your toolcase away from walk areas so that other people will not trip over it.
- Do not wear loose clothing that can be trapped in the moving parts of the machine. Make sure that your sleeves are fastened or rolled up above your elbows. If your hair is long, fasten it.
- Insert the ends of your necktie or scarf inside clothing or fasten it with the nonconductive clip, about 8 centimeters (3 inches) from the end.
- Do not wear jewelry, chains, metal-frame eyeglasses, or metal fasteners for your clothing.

Attention: Metal objects are good electrical conductors.
- Wear safety glasses when you are hammering, drilling, soldering, cutting wire, attaching springs, using solvents, or working in any other conditions that may be hazardous to your eyes.
- After service, reinstall all safety shields, guards, labels, and ground wires. Replace any safety device that is worn or defective.
- Reinstall all covers correctly before returning the machine to the customer.
- Fan louvers on the machine help to prevent the overheating of internal components. Do not obstruct fan louvers or cover them with labels or stickers.

Electrical safety

Observe the following rules when working on electrical equipments.

Important:

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

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

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

Attention: Another person must be there to switch off the power, if necessary.
 - Use only one hand when working with powered-on electrical equipment; keep the other hand in your pocket or behind your back.

Attention: An electrical shock can occur only when there is a complete circuit. By observing the above rule, you may prevent a current from passing through your body.
 - When using testers, set the controls correctly and use the approved probe leads and accessories for that tester.
 - Stand on suitable rubber mats (obtained locally, if necessary) to insulate you from grounds such as metal floor strips and machine frames.

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

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

- Always look carefully for possible hazards in your work area. Examples of these hazards are moist floors, nongrounded power extension cables, power surges, and missing safety grounds.
- Do not touch live electrical circuits with the reflective surface of a plastic dental mirror. The surface is conductive; such touching can cause personal injury and machine damage.
- Do not service the following parts with the power on when they are removed from their normal operating places in a machine:
 - Power supply units
 - Pumps
 - Blowers and fans
 - Motor generatorsand similar units. (This practice ensures correct grounding of the units.)
- If an electrical accident occurs:
 - Caution: do not become a victim yourself.
 - Switch off the power.
 - Send the victim to get medical aid.

Safety inspection guide

The purpose of this inspection guide is to assist you in identifying potential unsafe conditions. As each machine was designed and built, required safety items were installed to protect users and service personnel from injury. This guide addresses only those items. You should use good judgment to identify potential safety hazards according to the attachment of non-Lenovo features or options not covered by this inspection guide.

If any unsafe conditions are present, you must determine how serious the apparent hazard could be and whether you can continue without first correcting the problem.

Consider these conditions and the safety hazards they present:

- Electrical hazards, especially primary power (primary voltage on the frame can cause serious or fatal electrical shock)
- Explosive hazards, such as a damaged CRT face or a bulging capacitor
- Mechanical hazards, such as loose or missing hardware

To determine whether there are any potential unsafe conditions, use the following checklist at the beginning of every service task. Begin the checks with the power off, and the power cord disconnected.

Checklist:

1. Check exterior covers for damage (loose, broken, or sharp edges).
2. Turn off the computer. Disconnect the power cord.
3. Check the power cord for:
 - a. A third-wire ground connector in good condition. Use a meter to measure third-wire ground continuity for 0.1 ohm or less between the external ground pin and the frame ground.
 - b. The power cord should be the type specified in the parts list.
 - c. Insulation must not be frayed or worn.
4. Check for cracked or bulging batteries.
5. Remove the cover.
6. Check for any obvious non-Lenovo alterations. Use good judgment as to the safety of any non-Lenovo alterations.
7. Check inside the unit for any obvious unsafe conditions, such as metal filings, contamination, water or other liquids, or signs of fire or smoke damage.
8. Check for worn, frayed, or pinched cables.
9. Check that the power-supply cover fasteners (screws or rivets) have not been removed or tampered with.

Handling devices that are sensitive to electrostatic discharge

Any computer part containing transistors or integrated circuits (ICs) should be considered sensitive to electrostatic discharge (ESD). ESD damage can occur when there is a difference in charge between objects. Protect against ESD damage by equalizing the charge so that the machine, the part, the work mat, and the person handling the part are all at the same charge.

Notes:

1. Use product-specific ESD procedures when they exceed the requirements noted here.
2. Make sure that the ESD protective devices you use have been certified (ISO 9000) as fully effective.

When handling ESD-sensitive parts:

- Keep the parts in protective packages until they are inserted into the product.
- Avoid contact with other people.
- Wear a grounded wrist strap against your skin to eliminate static on your body.
- Prevent the part from touching your clothing. Most clothing is insulative and retains a charge even when you are wearing a wrist strap.
- Use the black side of a grounded work mat to provide a static-free work surface. The mat is especially useful when handling ESD-sensitive devices.
- Select a grounding system, such as those listed below, to provide protection that meets the specific service requirement.

Note:

The use of a grounding system to guard against ESD damage is desirable but not necessary.

- Attach the ESD ground clip to any frame ground, ground braid, or green-wire ground.
- When working on a double-insulated or battery-operated system, use an ESD common ground or reference point. You can use coax or connector-outside shells on these systems.
- Use the round ground prong of the ac plug on ac-operated computers.

Grounding requirements

Electrical grounding of the computer is required for operator safety and correct system function. Proper grounding of the electrical outlet can be verified by a certified electrician.

Safety notices: multilingual translations

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

Safety notice 1

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

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

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

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

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

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

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

Safety notice 2

DANGER

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

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

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

סוללות המתנה מסוימות מכילות כמויות קטנות של ניקל וקדמיום, אין לפרוק סוללות המתנה, לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לשלוק את הסוללה בנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה המומינה 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.

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

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

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

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

Safety notice 4

DANGER

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

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

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

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

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

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

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

Safety notice 5

If the LCD breaks and the fluid from inside the LCD gets into your eyes or on your hands, immediately wash the affected areas with water 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 הנגיש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע עם עיניכם או ידיכם, שטפו את האזורים הנגועים מיד במים במשך 15 דקות לפחות. פנו לקבלת עזרה רפואית אם תסמינים הנובעים מהמגע עם הנוזל נמשכים לאחר השטיפה.

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

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

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

Safety notice 6

DANGER

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

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

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

כדי למנוע התחשמלות, אין להסיר את מכסה הפלסטיק המגן על חלקו התחתון של 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, יכולה מקוצרת או מוארקות עלולה להפיק זרם מספיק לגרימת כוויות או להצתת חומרים דליקים.

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

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

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

Safety notice 8

DANGER

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

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

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

לפני סילוק FRU כלשהו, יש לכבות את המחשב, לנתק את כל כבלי החשמל משקעי החשמל, להוציא את מארז הסוללה, ואת 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 eljárásokról, beállításokról és vezérlésekről eltérni a lézersugárzás veszélye miatt kockázatos!

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

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

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

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

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

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

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

 DANGER

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

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

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

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

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

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

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

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

Keď je laserová jednotka otvorená. Vyhnite sa priamemu pohľadu a nehládte priamo s optickými nástrojmi do lúča a vyhnite sa priamemu vystaveniu lúčov.

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

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

Important service information

This chapter presents the following important service information:

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

Important:

BIOS and device driver fixes are customer-installable. The BIOS and device drivers are posted on the customer support site:

<http://support.lenovo.com>

Strategy for replacing FRUs

Before replacing parts:

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

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

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

1. Go to <http://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.

General checkout

This chapter presents the following information:

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

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

Important notes:

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

What to do first

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

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

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

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

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

The following are not covered under warranty:

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

The following symptoms might indicate damage caused by nonwarranted activities:

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

Power system checkout

To verify a symptom, follow the steps below:

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

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

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

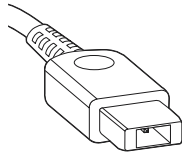
Checking the AC adapter

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

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

To check the AC adapter, follow the steps below:

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



Pin	Voltage (V dc)
1	20V/2.25A
2	15V/3A
3	9V/2A
4	5V/2A

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 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH” on page 27

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

Checking operational charging

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

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

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

Checking the battery pack

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

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

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

Related service information

This chapter presents the following information:

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

Restoring the factory contents by using Push-button reset

Restore of factory default

The Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH computers come with pre-installed Push-button reset. In order to save application files and the initial backed up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, press the Novo button and run **System Recovery**. For details of Push-button reset, see the *Recovery system* in the *User Guide*.

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

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

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

Passwords

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

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

Power-on password

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

Hard-disk password

There are two hard-disk passwords (HDPs):

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

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

Administrator password

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

Power management

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

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

Screen blank state

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

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

Putting the computer to sleep or shutting it down

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

Putting your computer to sleep

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

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

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

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

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

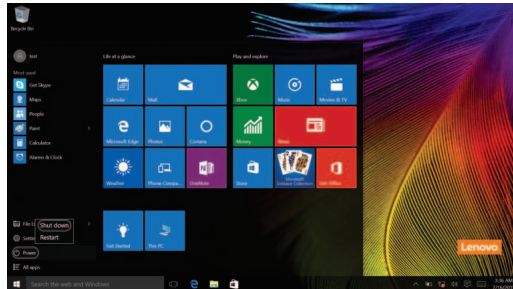
To wake up the computer, perform the following:

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

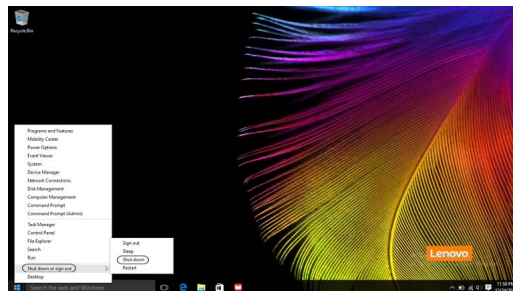
Shutting down the computer

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

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



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



Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/ideapad 330E-15ICH/ideapad 330R-15ICH/ ideapad 330-17ICH/ideapad 330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH

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

- “Specifications” on page 27
- “Status indicators” on page 29
- “Hotkeys” on page 30
- “FRU replacement notices” on page 31
- “Removing and replacing an FRU” on page 32
- “Locations” on page 63
- “Parts list” on page 65

Specifications

The following table lists the specifications of the Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH:

Table 1. Specifications

ideapad 330-15ICH		ideapad 330-17ICH	
Form Factor			
Dimensions	Appr. 378 mm × 260 mm × 22.9 mm	Appr. 418 mm × 292.6 mm × 24.9 mm	
Weight	Appr. 2.2 kg with battery	Appr. 2.8 kg with battery	
LCD size	15.6-inch	17.3-inch	
Processor			
See the system properties of your computer, you can do this as follows: Click Control Panel , then click Hardware and Sound , click Device Manager under Devices and Printers and double click Processors .			
Memory			
Type and speed	DDR4-2400 MHz		
Maximum supported capacity	16 GB		
Slots	16 GB: SODIMM × 1 Less than 16 GB: SODIMM × 1, On Board × 1		
Optane(on select models)			
Capacity	16 GB (2280)		
SSD			
Interface	PCIe		
Capacity	128 GB (2242) / 256 GB (2280)		

Table 1. Specifications (continued)

ideapad 330-15ICH		ideapad 330-17ICH	
Hard disk drive			
Form factor	2.5-inch, 7 mm		
Capacity	HDD: 500 GB / 1 TB / 2 TB, 5400 rpm PCIe SSD + SATA HDD (on select models)		
Interface	SATA 2/SATA 3		
Display			
Display resolution (LCD)	1366 × 768 pixels HD/ 1920 × 1080 pixels FHD	1600 × 900 pixels HD/ 1920 × 1080 pixels FHD	
LCD backlight	LED		
I/O Ports			
USB	USB 3.0 × 2, Type-C× 1 (Support USB 3.1 Gen 1, Output 5 V DC, 0.9 A DC)		
Audio	Combo audio jack × 1		
Video/Audio	HDMI slot × 1		
Ethernet	RJ-45 × 1		
Memory card slot	4 in 1 slot × 1 (SD/SDHC/SDXC/MMC)		
Battery pack			
Type	Polymer		
Cells/Capacity	3 Cell, 45 Wh		
Note: The capacity given here is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).			
AC power adapter			
Input	100-240 V, 50-60 Hz AC		
Output voltage	20 V DC		
Power	90 W		
Miscellaneous			
Camera	HD		
Security	Kensington slot × 1		

Status indicators

The system status indicators below show the computer status:

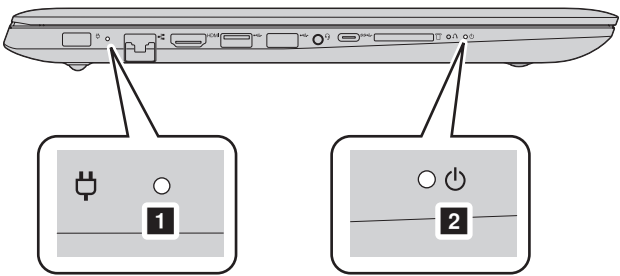


Table 2. Status indicators

AC power adapter status	Indicator status	Meaning
Disconnected	Off	The computer is in sleep mode or turned off; The battery has more than 20% charge.
	Solid amber	The battery has between 5% and 20% charge.
	Fast blinking amber	The battery has between 1% and 5% charge.
Connected	Slow blinking amber	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
	Slow blinking white	The battery has between 20% and 80% charge and is still charging. When the battery reaches 80% charge the light will stop blinking.
	Solid white	The battery has more than 80% charge, charging will continue until the battery is fully charged.

Indicator	Indicator status	Meaning
Power status indicator	On (solid white)	The computer is powered on.
	Blinking	The computer is in sleep mode.
	Off	The computer is powered off.

Hotkeys

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

Table 3. Hotkeys

	: Mutes/unmutes the sound.		: Enables/disables airplane mode.
	: Decreases the volume level.		: Enables/disables camera.
	: Increases the volume level.		: Locks the LCD screen.
	: Enables/disables microphone.		: Enables the external projector.
	: Refreshes page.		: Decreases display brightness.
	: Enables/disables the touch pad.		: Increases display brightness.

FRU replacement notices

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

Screw notices

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

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

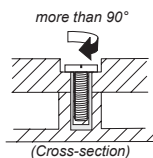
Do the following when you service this machine:

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

Tighten screws as follows:

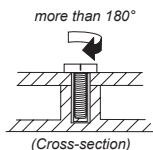
- **Plastic to plastic**

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 63.
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.

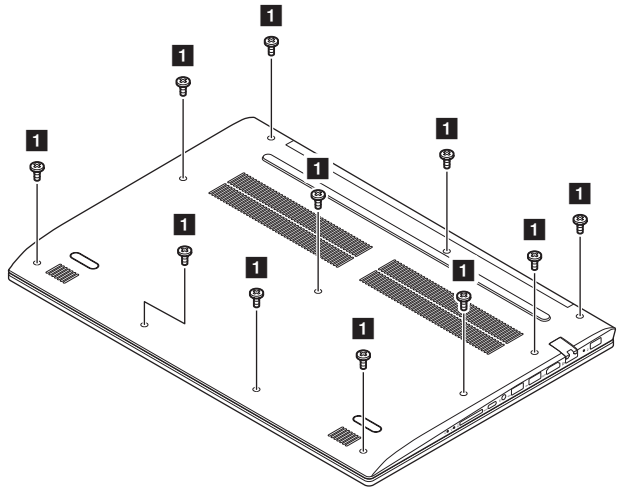
Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH

1010 Base cover

Figure 1. Removal steps of base cover

Remove the screws ■.

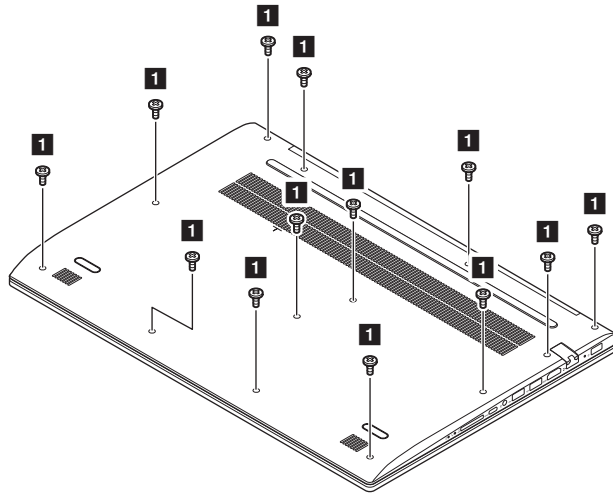
ideapad 330-15ICH



Step	Screw (quantity)	Color	Torque
■	M2.5 x L7 mm, Phillips-head (11)	Black	2.7-3.3 kgf.cm

Figure 1. Removal steps of base cover (continued)

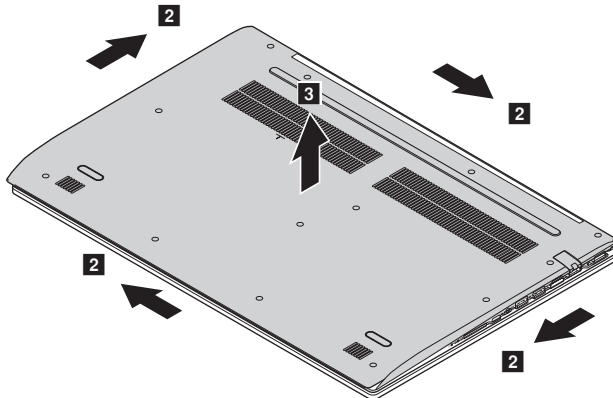
ideapad 330-17ICH



Step	Screw (quantity)	Color	Torque
■	M2.5 x L7 mm, Phillips-head (13)	Black	2.7-3.3 kgf.cm

Remove the base cover in the directions shown by arrows **2** and **3**.

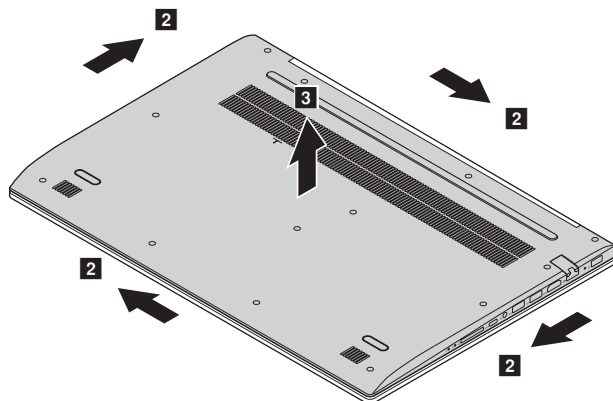
ideapad 330-15ICH



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 1. Removal steps of base cover (continued)

ideapad 330-17ICH



Note: Applying labels to the base cover

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

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

For countries other than China and India:

- a** Rating label 66 × 24mm
- b** Rating label for print 43 × 24mm
- c** OS label 16 × 22.5mm
- d** Office label 17 × 21mm
- e** TW label 70 × 10mm
- f** Argentina label 68 × 6mm
- g** Adapter label 65 × 20mm
- h** WL/BT label 35 × 15mm
- i** Indonesia label 32 × 10mm
- j** BIS label 22 × 30mm
- k** KCC label 50 × 16mm

For China and India:

- a** Rating label 33 × 24mm
- b** Rating label for print 43 × 24mm
- c** OS label 16 × 22.5mm
- d** Office label 17 × 21mm
- e** TW label 70 × 10mm
- f** Argentina label 68 × 6mm
- g** Adapter label 65 × 20mm
- h** WL/BT label 35 × 15mm
- i** Indonesia label 32 × 10mm
- j** BIS label 22 × 30mm
- k** KCC label 50 × 16mm

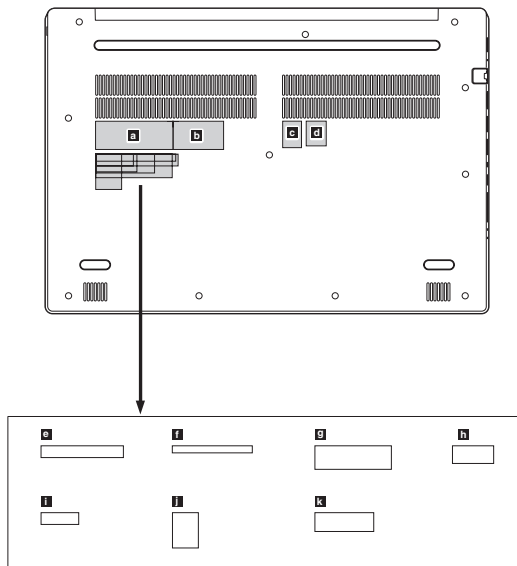
For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

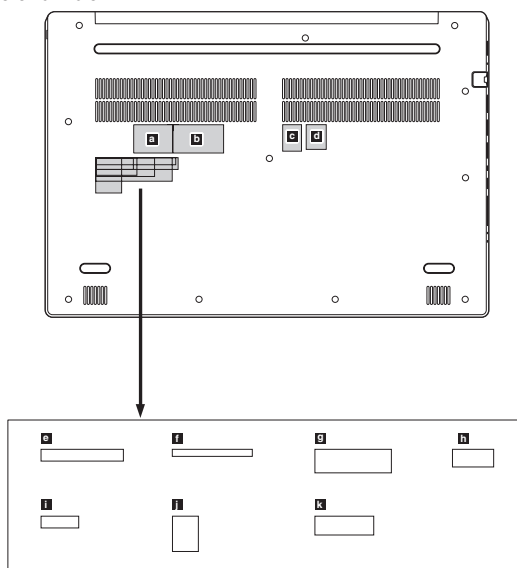
For the location of each label, refer to the following figures:

ideapad 330-15ICH

For countries other than China and India:

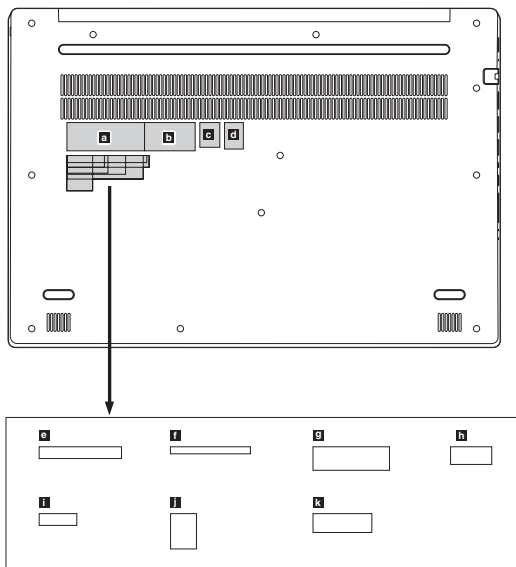


For China and India:

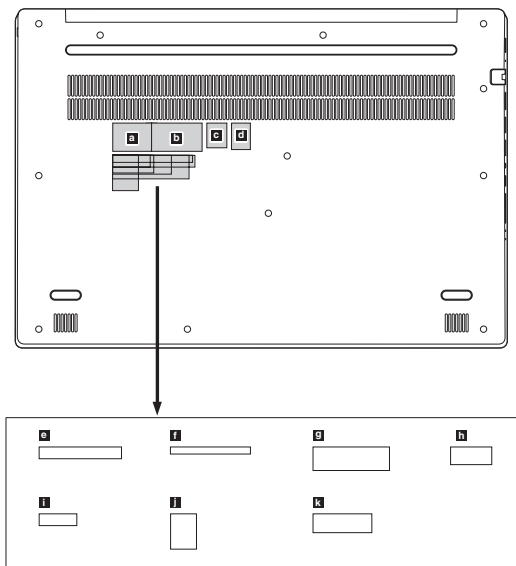


ideapad 330-17ICH

For countries other than China and India:



For China and India:



Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH

1020 Battery pack

DANGER

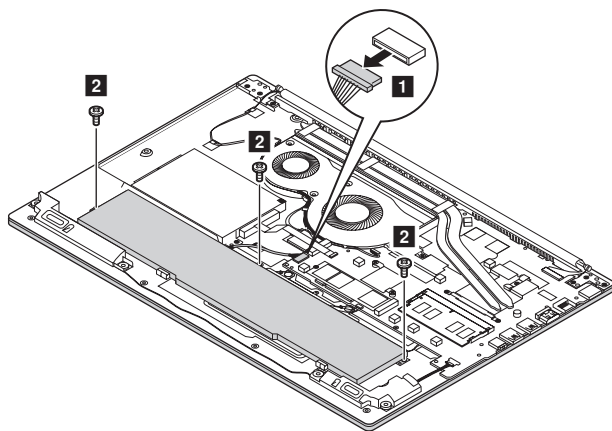
Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

For access, remove this FRU:

- “1010 Base cover” on page 33

Figure 2. Removal steps of battery pack

Detach the battery pack connector in the direction shown by arrow  **1**, remove the screws **2**.



ideapad 330-15ICH

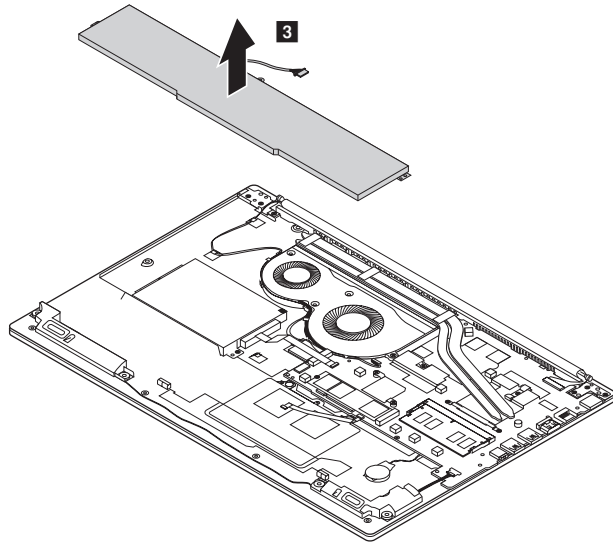
Step	Screw (quantity)	Color	Torque
2	M2 x L6 mm, Phillips-head (3)	Black	1.7-2.0 kgf.cm

ideapad 330-17ICH

Step	Screw (quantity)	Color	Torque
2	M2 x L3.5 mm, Phillips-head (3)	Silver	1.7-2.0 kgf.cm

Figure 2. Removal steps of battery pack (continued)

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



1030 Hard disk drive

For access, remove these FRUs in order:

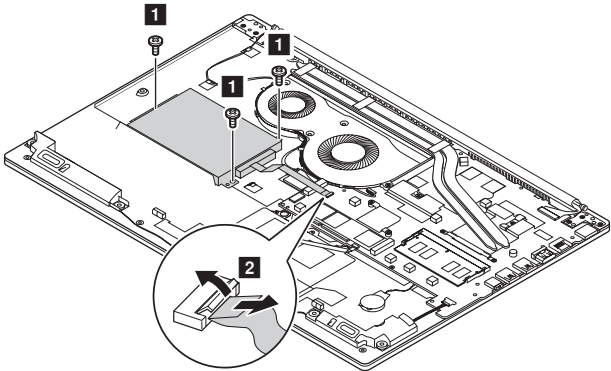
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39

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 in suspend mode.

Figure 3. Removal steps of hard disk drive

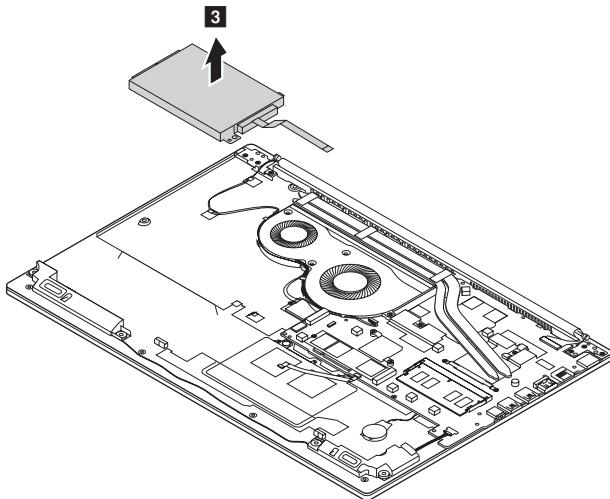
Remove the screws ■. Then disconnect the connector in the direction shown by arrow 2.



Step	Screw (quantity)	Color	Torque
■	M2 x L3.5 mm, Phillips-head (3)	Silver	1.7-2.0 kgf.cm

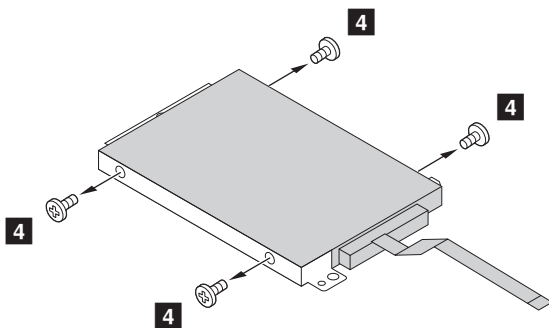
Figure 3. Removal steps of hard disk drive (continued)

Remove the hard disk drive from the slot in the direction shown by arrow **3**.



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

Remove the screws **4** and detach the metal frame from the hard disk drive.



Step	Screw (quantity)	Color	Torque
4	M3 x L3 mm, Phillips-head (4)	Silver	2.7-3.3 kgf.cm

Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH

1040 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

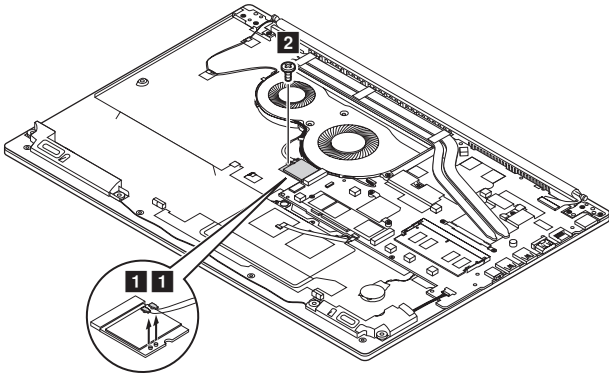
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41

Important:

The preinstalled WLAN module may only be replaced with a Lenovo approved module in order to comply with FCC and IC regulations. Refer to Table 4 “Parts list—Overall” on page 66 for Lenovo part numbers for the approved modules.

Figure 4. Removal steps of PCI Express Mini Card for wireless LAN

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

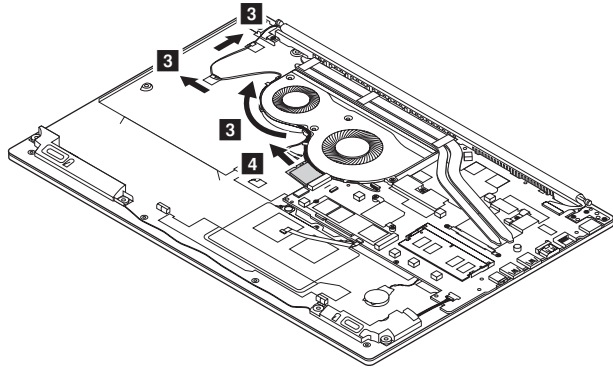


In step ■, unplug the jacks by using the removal tool antenna RF connector (P/N: 08K7159), or pick up the connectors with your fingers and gently unplug them in the direction shown by the arrows.

Step	Screw (quantity)	Color	Torque
2	M2 x L3.5 mm, Phillips-head (1)	Silver	1.7-2.0 kgf.cm

Figure 4. Removal steps of PCI Express Mini Card for wireless LAN (continued)

Release the cables from the cable guides in the direction shown by arrows **3**.
Then remove the card in the direction shown by arrow **4**.



When installing:

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

Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH

1050 SSD card

For access, remove these FRUs in order:

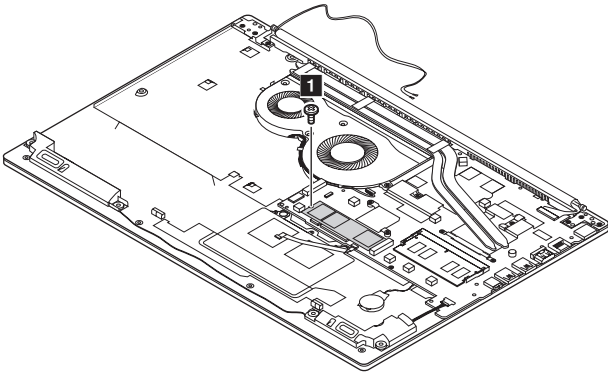
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43

Attention:

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

Figure 5. Removal steps of SSD card

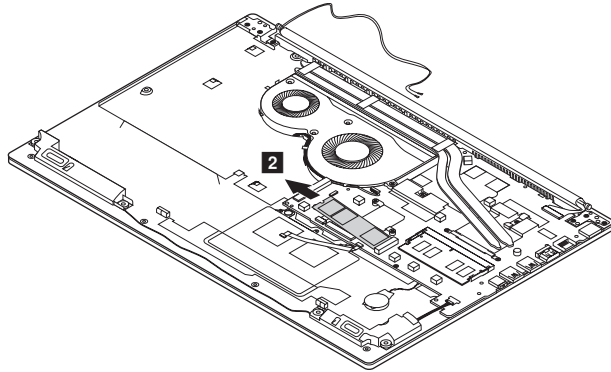
Remove the screw ■.



Step	Screw (quantity)	Color	Torque
■	M2 x L3.5 mm, Phillips-head (1)	Silver	1.7-2.0 kgf.cm

Figure 5. Removal steps of SSD card (continued)

Remove the SSD card in the direction shown by arrow **2**.



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

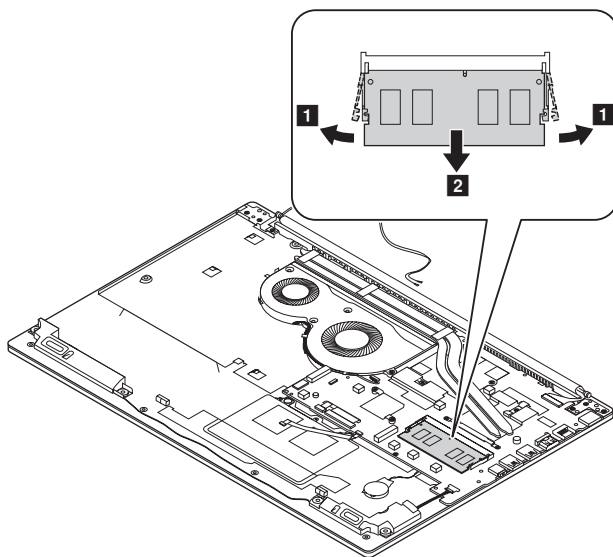
1060 DIMM

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45

Figure 6. Removal steps of DIMM

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



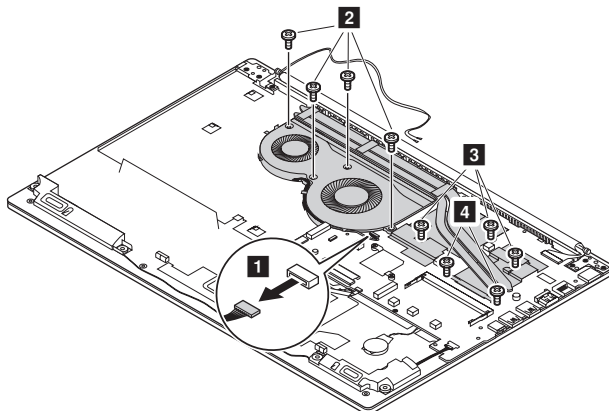
1070 Fan and heat sink

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47

Figure 7. Removal steps of fan and heat sink

Unplug the fan connector in the direction shown by arrow **1**. Remove the screws **2** and loosen the screws **3** and **4**.



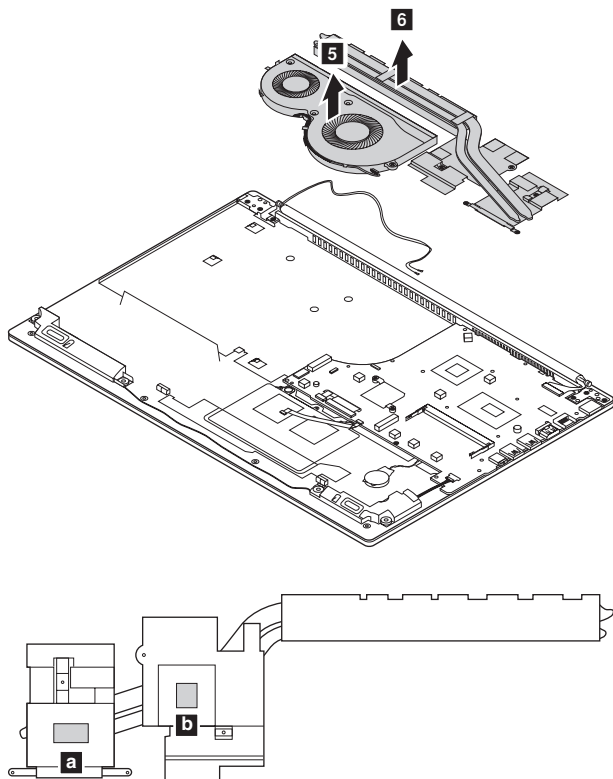
Step	Screw (quantity)	Color	Torque
2	M2 x L6 mm, Phillips head (4)	Black	1.7-2.0 kgf.cm

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

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 7. Removal steps of fan and heat sink (continued)

Remove the fan and heat sink in the direction shown by arrow **5** and **6**. Be careful not to damage the connector.



When installing: Before you attach the fan assembly to the computer, apply thermal grease, at an amount of 0.2 grams, to the **a b** part 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.

1080 Upper case

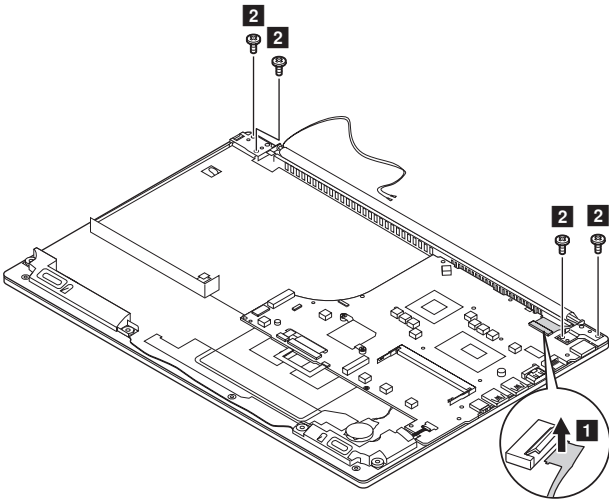
For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47
- “1070 Fan and heat sink” on page 48

Figure 8. Removal steps of upper case

Detach the EDP connector in the direction shown by arrow **1**. Then remove the screws **2**.

ideapad 330-15ICH

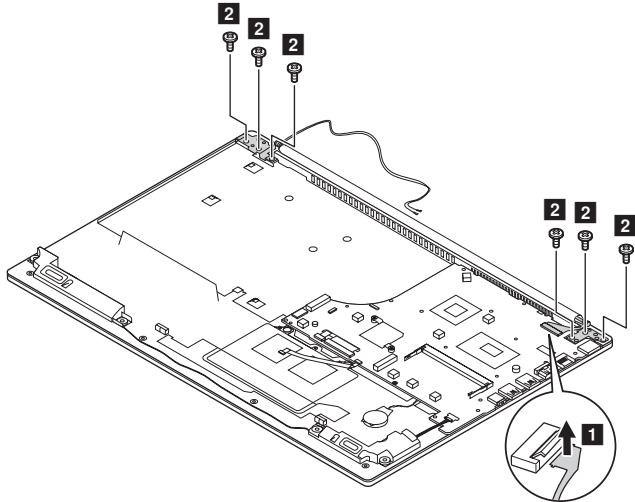


Step	Screw (quantity)	Color	Torque
2	M2.5 × L5 mm, Phillips-head (4)	Black	2.7-3.3 kgf.cm

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 8. Removal steps of upper case (continued)

ideapad 330-17ICH



Step	Screw (quantity)	Color	Torque
2	M2.5 × L5 mm, Phillips-head (6)	Black	2.7-3.3 kgf.cm

Open the hinge in the direction shown by arrows 3.

ideapad 330-15ICH

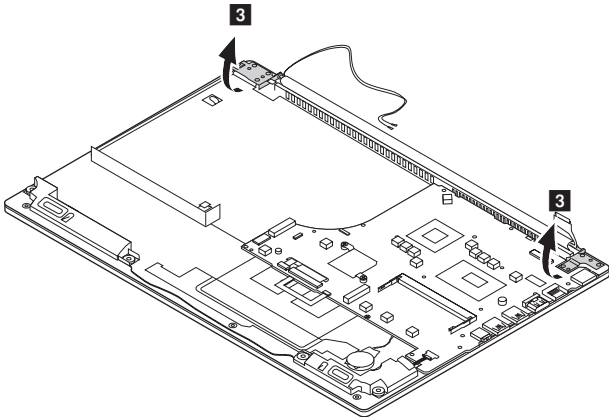
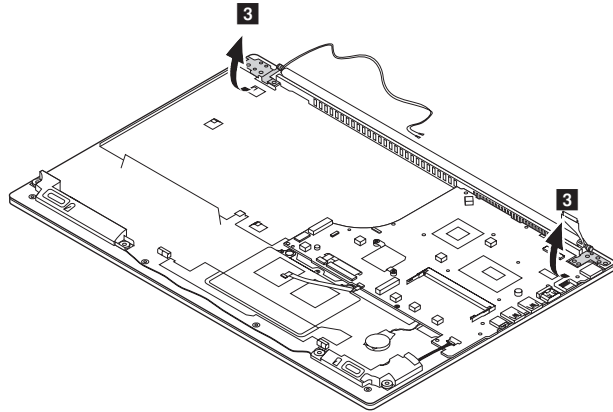


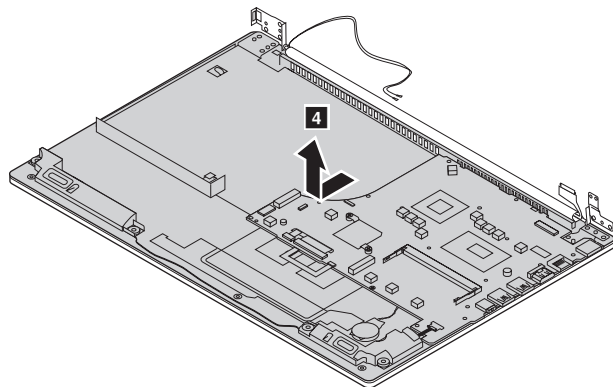
Figure 8. Removal steps of upper case (continued)

ideapad 330-17ICH



Remove the upper case from the LCD module in the directions shown by arrow **3**.

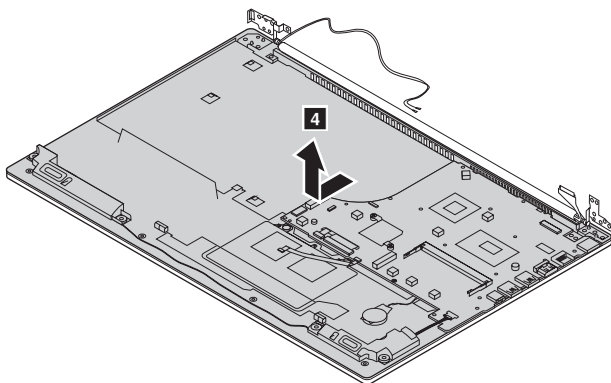
ideapad 330-15ICH



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 8. Removal steps of upper case (continued)

ideapad 330-17ICH



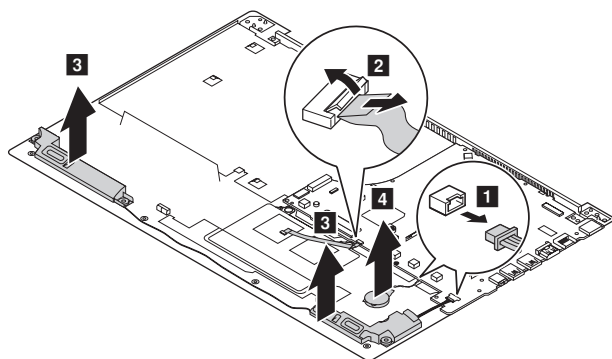
1090 Speakers

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47
- “1070 Fan and heat sink” on page 48
- “1080 Upper case” on page 50

Figure 9. Removal steps of speakers

Unplug the speaker connectors **1** and **2**. Then remove the speakers and backup battery in the direction shown by arrow **3** and **4**.



1100 System board

Important notices for handling the system board:

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

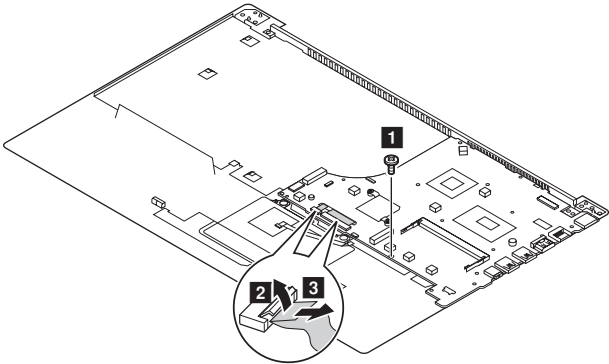
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- During the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded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

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47
- “1070 Fan and heat sink” on page 48
- “1080 Upper case” on page 50
- “1090 Speakers” on page 54

Figure 10. Removal steps of system board

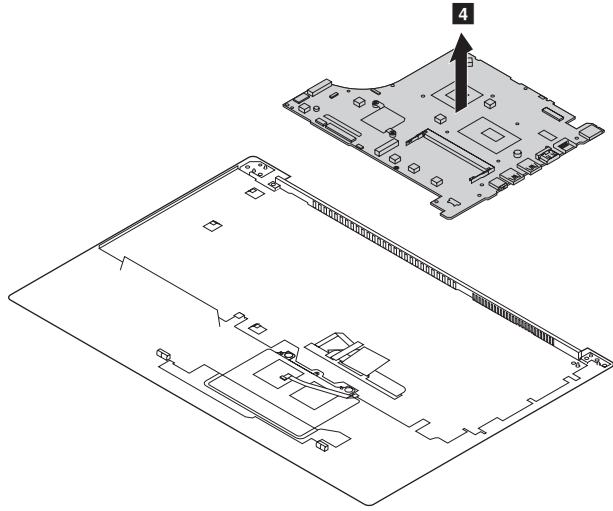
Remove the screws **■**. Then disconnect the connectors in the directions shown by arrows **2** and **3**.



Step	Screw (quantity)	Color	Torque
■	M2 x L3.5 mm, Phillips-head (1)	Silver	1.7-2.0 kgf.cm

Figure 10. Removal steps of system board (continued)

Remove the system board in the direction shown by arrows **4**.



1110 LCD unit

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47
- “1070 Fan and heat sink” on page 48
- “1080 Upper case” on page 50
- “1090 Speakers” on page 54
- “1100 System board” on page 55

Figure 11. Removal steps of LCD unit

Remove the hinge cover ■.

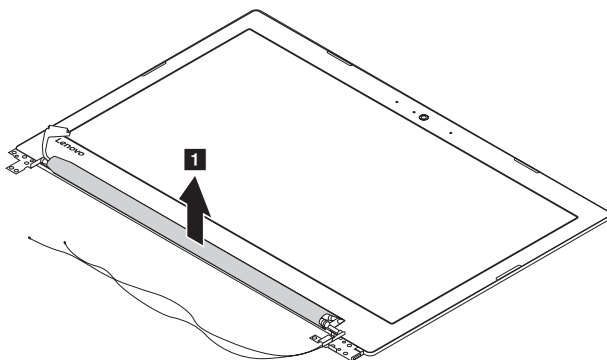
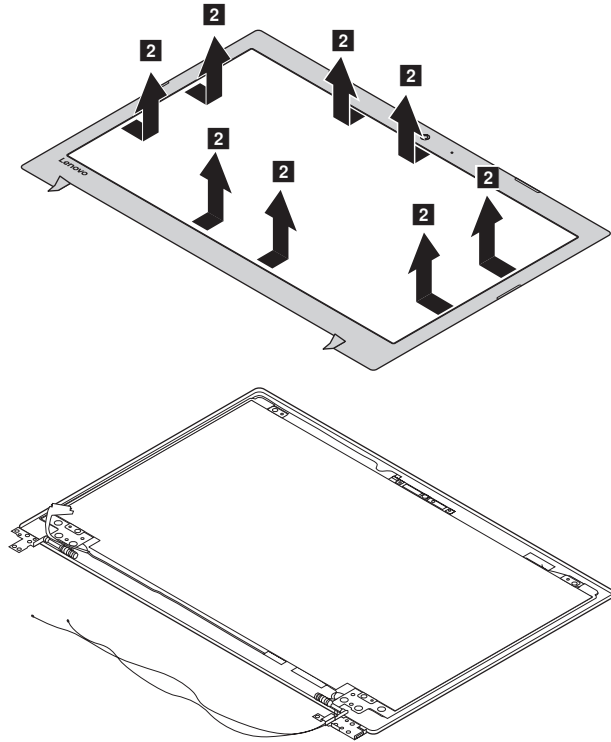


Figure 11. Removal steps of LCD unit (continued)

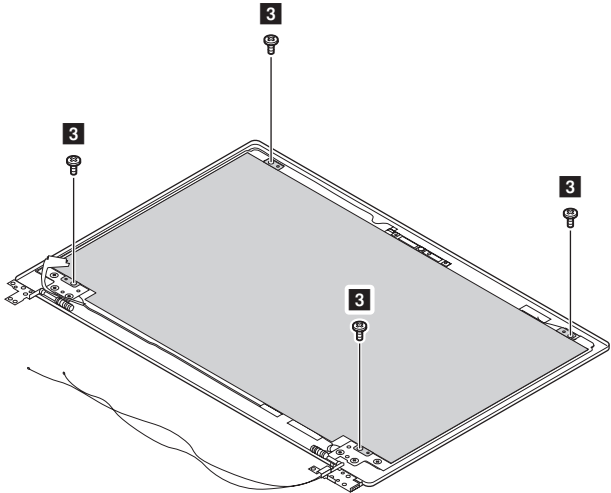
Remove the LCD front bezel in the direction shown by arrows 2.



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 11. Removal steps of LCD unit (continued)

Remove screws **3**.



ideapad 330-15ICH

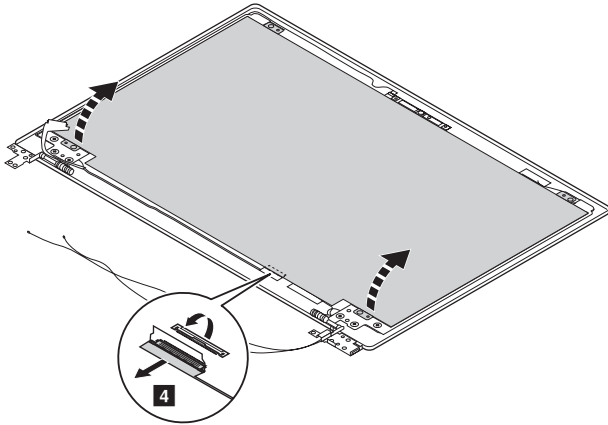
Step	Screw (quantity)	Color	Torque
3	M2 x L3 mm, Phillips-head (4)	Silver	1.7-2.0 kgf.cm

ideapad 330-17ICH

Step	Screw (quantity)	Color	Torque
3	M2 x L3.5 mm, Phillips-head (4)	Silver	1.7-2.0 kgf.cm

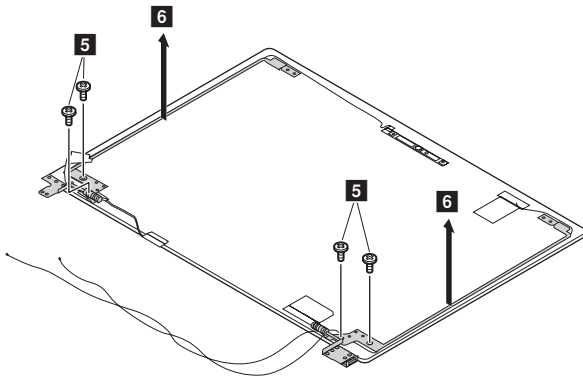
Figure 11. Removal steps of LCD unit (continued)

Lift the LCD module slightly. Disconnect the connector in the direction shown by arrow **4**. Then remove the LCD module.



Remove the screws **5**. Then remove the LCD hinges in the direction shown by arrows **6**.

ideapad 330-15ICH

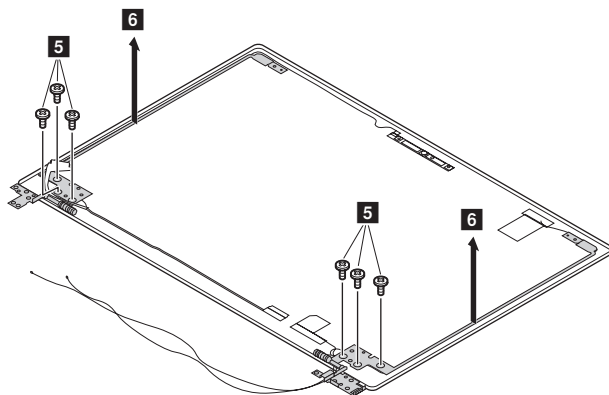


Step	Screw (quantity)	Color	Torque
5	M2.5 x L2.5 mm, Phillips-head(4)	Silver	2.7-3.3 kgf.cm

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Figure 11. Removal steps of LCD unit (continued)

ideapad 330-17ICH



Step	Screw (quantity)	Color	Torque
5	M2.5 x L2.5 mm, Phillips-head(6)	Sliver	2.7-3.3 kgf.cm

1120 Integrated camera

For access, remove these FRUs in order:

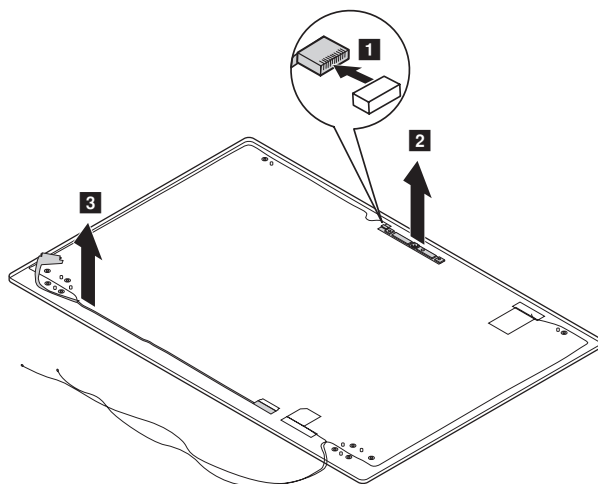
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 39
- “1030 Hard disk drive” on page 41
- “1040 PCI Express Mini Card for wireless LAN” on page 43
- “1050 SSD card” on page 45
- “1060 DIMM” on page 47
- “1070 Fan and heat sink” on page 48
- “1080 Upper case” on page 50
- “1090 Speakers” on page 54
- “1100 System board” on page 55
- “1110 LCD unit” on page 57

Figure 12. Removal steps of integrated camera

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

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

Then remove the integrated camera and LCD cable in the direction shown by arrows **2** and **3**.

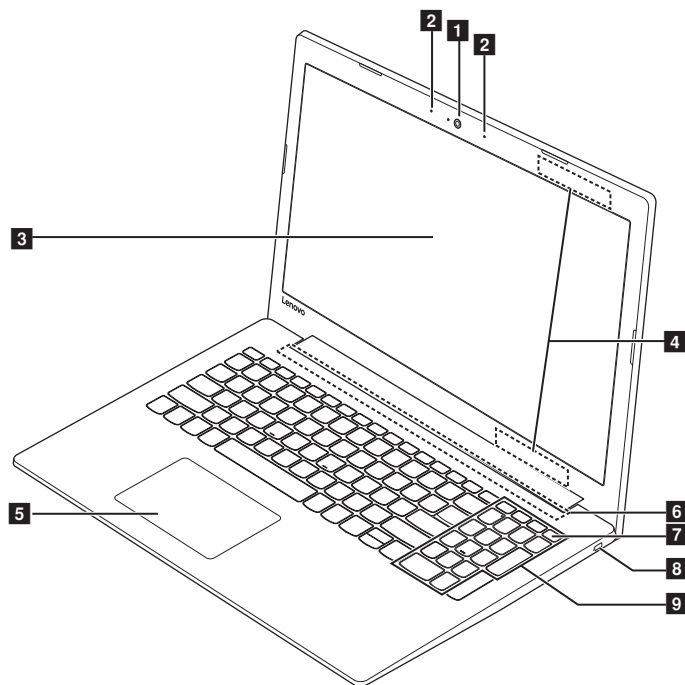


When installing: Stick the integrated camera to the top center of the LCD cover and adjust its placement to make sure the connector is attached firmly.

Locations

Front view and right-side view

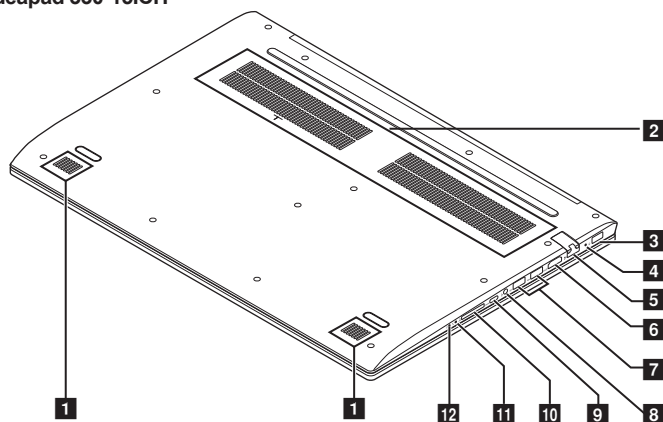
- Integrated camera
- Built-in microphone
- Computer display
- Wireless LAN antennas
- Touch pad
- Ventilation slots
- Power key
- Kensington Mini Security slot
- Numeric keypad



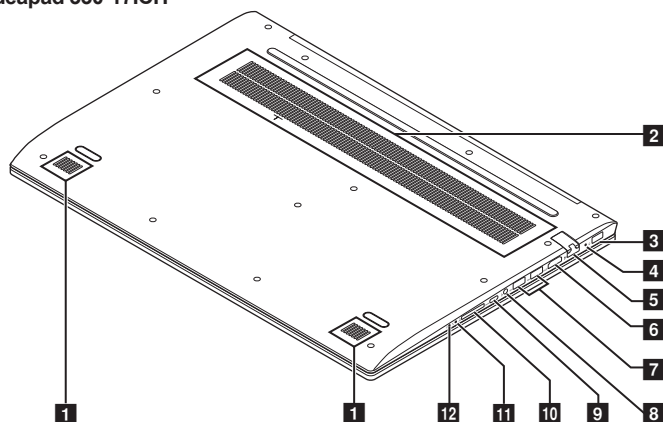
Bottom and Left-side view

- Speakers
- 2 Ventilation slots
- 3 AC power adapter jack
- 4 Battery/Charging status indicator
- 5 RJ-45 port
- 6 HDMI port
- 7 USB 3.0 port
- 8 Combo audio jack
- 9 Type-C port
- 10 Memory card slot
- 11 Novo button
- 12 Power status indicator

ideapad 330-15ICH



ideapad 330-17ICH



Parts list

This section presents the following service parts:

- “Overall” on page 66
- “LCD FRUs” on page 78
- “Miscellaneous parts” on page 82
- “AC adapters” on page 81
- “Screws” on page 82

Note:

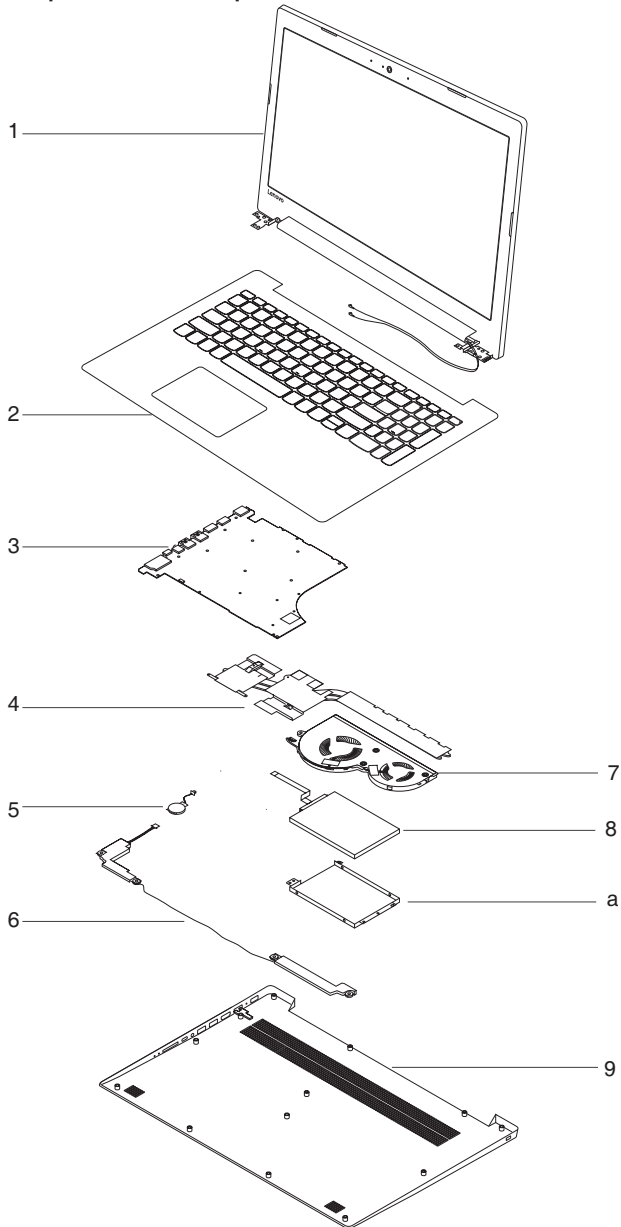
Each FRU is available for all types or models, unless specific types or models are specified.

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

ideapad 330-15ICH/ideapad 330-17ICH



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall

ideapad 330-15ICH

No.	FRU	FRU no.	CRU ID.
a	See "Miscellaneous parts" on page 82.		
1	LCD unit (see "LCD FRUs" on page 78).		
2	UpCaASMW/KB L81FK BW BL ENG	5CB0R46906	N
2	UpCaASMW/KB L81FK BW BL UKE	5CB0R46767	
2	UpCaASMW/KB L81FK BW BL ITA	5CB0R46885	
2	UpCaASMW/KB L81FK BW BL SPA	5CB0R46905	
2	UpCaASMW/KB L81FK BW BL TUR	5CB0R46779	
2	UpCaASMW/KB L81FK BW BL THAI	5CB0R46808	
2	UpCaASMW/KB L81FK BW BL POR	5CB0R46871	
2	UpCaASMW/KB L81FK BW BL LA SPA	5CB0R46789	
2	UpCaASMW/KB L81FK BW BL FRA/ENG	5CB0R46796	
2	UpCaASMW/KB L81FK BW BL KOR	5CB0R47027	
2	UpCaASMW/KB L81FK BW BL TC	5CB0R46848	
2	UpCaASMW/KB L81FK BW BL RUS	5CB0R46783	
2	UpCaASMW/KB L81FK BW BL FRA	5CB0R46997	
2	UpCaASMW/KB L81FK BW BL GER	5CB0R46928	
2	UpCaASMW/KB L81FK BW BL ARA	5CB0R46793	
2	UpCaASMW/KB L81FK BW BL BRL	5CB0R47045	
2	UpCaASMW/KB L81FK BW BL GRE	5CB0R47003	
2	UpCaASMW/KB L81FK BW BL HBW	5CB0R46813	
2	UpCaASMW/KB L81FK BW BL HUN	5CB0R46955	
2	UpCaASMW/KB L81FK BW BL NORDIC	5CB0R46781	
2	UpCaASMW/KB L81FK BW BL BEL	5CB0R46788	
2	UpCaASMW/KB L81FK BW BL ILD	5CB0R46833	
2	UpCaASMW/KB L81FK BW BL SL	5CB0R46927	
2	UpCaASMW/KB L81FK BW BL SWS	5CB0R46903	
2	UpCaASMW/KB L81FK BW BL EURO	5CB0R47020	
2	UpCaASMW/KB L81FK BW BL CZE/SLK	5CB0R46756	
2	UpCaASMW/KB L81FK BW BL BUL	5CB0R47007	
2	UpCaASMW/KB L81FK BW BL HIN	5CB0R46849	
2	UpCaASMW/KB L81FK BW BL FRA/ARA	5CB0R47022	
2	UpCaASMW/KB L81FK BW BL UKR	5CB0R46838	
2	UpCaASMW/KB L81FK BW NBL ENG	5CB0R46770	
2	UpCaASMW/KB L81FK BW NBL UKE	5CB0R46850	
2	UpCaASMW/KB L81FK BW NBL ITA	5CB0R47017	
2	UpCaASMW/KB L81FK BW NBL SPA	5CB0R46995	
2	UpCaASMW/KB L81FK BW NBL TUR	5CB0R46897	
2	UpCaASMW/KB L81FK BW NBL THAI	5CB0R46922	
2	UpCaASMW/KB L81FK BW NBL POR	5CB0R47042	
2	UpCaASMW/KB L81FK BW NBL LA SPA	5CB0R46872	
2	UpCaASMW/KB L81FK BW NBL FRA/ENG	5CB0R46842	
2	UpCaASMW/KB L81FK BW NBL KOR	5CB0R46855	
2	UpCaASMW/KB L81FK BW NBL TC	5CB0R46794	
2	UpCaASMW/KB L81FK BW NBL RUS	5CB0R46983	
2	UpCaASMW/KB L81FK BW NBL FRA	5CB0R46824	
2	UpCaASMW/KB L81FK BW NBL GER	5CB0R46876	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK BW NBL ARA	5CB0R46853	N
2	UpCaASMW/KB L81FK BW NBL BRL	5CB0R47012	
2	UpCaASMW/KB L81FK BW NBL GRE	5CB0R46877	
2	UpCaASMW/KB L81FK BW NBL HBW	5CB0R46752	
2	UpCaASMW/KB L81FK BW NBL HUN	5CB0R47039	
2	UpCaASMW/KB L81FK BW NBL NORDIC	5CB0R46884	
2	UpCaASMW/KB L81FK BW NBL BEL	5CB0R46879	
2	UpCaASMW/KB L81FK BW NBL ILD	5CB0R47025	
2	UpCaASMW/KB L81FK BW NBL SL	5CB0R46799	
2	UpCaASMW/KB L81FK BW NBL SWS	5CB0R46801	
2	UpCaASMW/KB L81FK BW NBL EURO	5CB0R46819	
2	UpCaASMW/KB L81FK BW NBL CZE/SLK	5CB0R46892	
2	UpCaASMW/KB L81FK BW NBL BUL	5CB0R46787	
2	UpCaASMW/KB L81FK BW NBL HIN	5CB0R46980	
2	UpCaASMW/KB L81FK BW NBL FRA/ARA	5CB0R46875	
2	UpCaASMW/KB L81FK BW NBL UKR	5CB0R47010	
2	UpCaASMW/KB L81FK IG BL ENG	5CB0R47036	
2	UpCaASMW/KB L81FK IG BL UKE	5CB0R47002	
2	UpCaASMW/KB L81FK IG BL ITA	5CB0R46867	
2	UpCaASMW/KB L81FK IG BL SPA	5CB0R46811	
2	UpCaASMW/KB L81FK IG BL TUR	5CB0R46814	
2	UpCaASMW/KB L81FK IG BL THAI	5CB0R47031	
2	UpCaASMW/KB L81FK IG BL POR	5CB0R46999	
2	UpCaASMW/KB L81FK IG BL LA SPA	5CB0R46862	
2	UpCaASMW/KB L81FK IG BL FRA/ENG	5CB0R46880	
2	UpCaASMW/KB L81FK IG BL KOR	5CB0R46953	
2	UpCaASMW/KB L81FK IG BL TC	5CB0R46896	
2	UpCaASMW/KB L81FK IG BL RUS	5CB0R46827	
2	UpCaASMW/KB L81FK IG BL FRA	5CB0R46790	
2	UpCaASMW/KB L81FK IG BL GER	5CB0R46829	
2	UpCaASMW/KB L81FK IG BL ARA	5CB0R46765	
2	UpCaASMW/KB L81FK IG BL BRL	5CB0R46954	
2	UpCaASMW/KB L81FK IG BL GRE	5CB0R46914	
2	UpCaASMW/KB L81FK IG BL HBW	5CB0R47013	
2	UpCaASMW/KB L81FK IG BL HUN	5CB0R46958	
2	UpCaASMW/KB L81FK IG BL NORDIC	5CB0R47029	
2	UpCaASMW/KB L81FK IG BL BEL	5CB0R47023	
2	UpCaASMW/KB L81FK IG BL ILD	5CB0R46856	
2	UpCaASMW/KB L81FK IG BL SL	5CB0R46802	
2	UpCaASMW/KB L81FK IG BL SWS	5CB0R46778	
2	UpCaASMW/KB L81FK IG BL EURO	5CB0R46761	
2	UpCaASMW/KB L81FK IG BL CZE/SLK	5CB0R46904	
2	UpCaASMW/KB L81FK IG BL BUL	5CB0R46873	
2	UpCaASMW/KB L81FK IG BL HIN	5CB0R46806	
2	UpCaASMW/KB L81FK IG BL FRA/ARA	5CB0R46889	
2	UpCaASMW/KB L81FK IG BL UKR	5CB0R46828	
2	UpCaASMW/KB L81FK IG NBL ENG	5CB0R46930	

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK IG NBL UKE	5CB0R46962	N
2	UpCaASMW/KB L81FK IG NBL ITA	5CB0R46937	
2	UpCaASMW/KB L81FK IG NBL SPA	5CB0R46820	
2	UpCaASMW/KB L81FK IG NBL TUR	5CB0R46993	
2	UpCaASMW/KB L81FK IG NBL THAI	5CB0R47044	
2	UpCaASMW/KB L81FK IG NBL POR	5CB0R46913	
2	UpCaASMW/KB L81FK IG NBL LA SPA	5CB0R46759	
2	UpCaASMW/KB L81FK IG NBL FRA/ENG	5CB0R46929	
2	UpCaASMW/KB L81FK IG NBL KOR	5CB0R46773	
2	UpCaASMW/KB L81FK IG NBL TC	5CB0R46882	
2	UpCaASMW/KB L81FK IG NBL RUS	5CB0R46932	
2	UpCaASMW/KB L81FK IG NBL FRA	5CB0R46836	
2	UpCaASMW/KB L81FK IG NBL GER	5CB0R46971	
2	UpCaASMW/KB L81FK IG NBL ARA	5CB0R46945	
2	UpCaASMW/KB L81FK IG NBL BRL	5CB0R46942	
2	UpCaASMW/KB L81FK IG NBL GRE	5CB0R46919	
2	UpCaASMW/KB L81FK IG NBL HBW	5CB0R46998	
2	UpCaASMW/KB L81FK IG NBL HUN	5CB0R46915	
2	UpCaASMW/KB L81FK IG NBL NORDIC	5CB0R46975	
2	UpCaASMW/KB L81FK IG NBL BEL	5CB0R46924	
2	UpCaASMW/KB L81FK IG NBL ILD	5CB0R46863	
2	UpCaASMW/KB L81FK IG NBL SL	5CB0R46935	
2	UpCaASMW/KB L81FK IG NBL SWS	5CB0R46843	
2	UpCaASMW/KB L81FK IG NBL EURO	5CB0R47015	
2	UpCaASMW/KB L81FK IG NBL CZE/SLK	5CB0R46940	
2	UpCaASMW/KB L81FK IG NBL BUL	5CB0R46757	
2	UpCaASMW/KB L81FK IG NBL HIN	5CB0R47046	
2	UpCaASMW/KB L81FK IG NBL FRA/ARA	5CB0R47004	
2	UpCaASMW/KB L81FK IG NBL UKR	5CB0R46771	
2	UpCaASMW/KB L81FK PG BL ENG	5CB0R46921	
2	UpCaASMW/KB L81FK PG BL UKE	5CB0R46943	
2	UpCaASMW/KB L81FK PG BL ITA	5CB0R46857	
2	UpCaASMW/KB L81FK PG BL SPA	5CB0R46956	
2	UpCaASMW/KB L81FK PG BL TUR	5CB0R46859	
2	UpCaASMW/KB L81FK PG BL THAI	5CB0R46891	
2	UpCaASMW/KB L81FK PG BL POR	5CB0R46964	
2	UpCaASMW/KB L81FK PG BL LA SPA	5CB0R46766	
2	UpCaASMW/KB L81FK PG BL FRA/ENG	5CB0R47005	
2	UpCaASMW/KB L81FK PG BL KOR	5CB0R46886	
2	UpCaASMW/KB L81FK PG BL TC	5CB0R46917	
2	UpCaASMW/KB L81FK PG BL RUS	5CB0R46818	
2	UpCaASMW/KB L81FK PG BL FRA	5CB0R46994	
2	UpCaASMW/KB L81FK PG BL GER	5CB0R46845	
2	UpCaASMW/KB L81FK PG BL ARA	5CB0R47008	
2	UpCaASMW/KB L81FK PG BL BRL	5CB0R47032	
2	UpCaASMW/KB L81FK PG BL GRE	5CB0R46774	
2	UpCaASMW/KB L81FK PG BL HBW	5CB0R46810	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK PG BL HUN	5CB0R46795	N
2	UpCaASMW/KB L81FK PG BL NORDIC	5CB0R47019	
2	UpCaASMW/KB L81FK PG BL BEL	5CB0R46786	
2	UpCaASMW/KB L81FK PG BL ILD	5CB0R46758	
2	UpCaASMW/KB L81FK PG BL SL	5CB0R46986	
2	UpCaASMW/KB L81FK PG BL SWS	5CB0R46925	
2	UpCaASMW/KB L81FK PG BL EURO	5CB0R46920	
2	UpCaASMW/KB L81FK PG BL CZE/SLK	5CB0R46837	
2	UpCaASMW/KB L81FK PG BL BUL	5CB0R46878	
2	UpCaASMW/KB L81FK PG BL HIN	5CB0R47047	
2	UpCaASMW/KB L81FK PG BL FRA/ARA	5CB0R46988	
2	UpCaASMW/KB L81FK PG BL UKR	5CB0R46840	
2	UpCaASMW/KB L81FK PG NBL ENG	5CB0R46797	
2	UpCaASMW/KB L81FK PG NBL UKE	5CB0R46959	
2	UpCaASMW/KB L81FK PG NBL ITA	5CB0R46750	
2	UpCaASMW/KB L81FK PG NBL SPA	5CB0R47014	
2	UpCaASMW/KB L81FK PG NBL TUR	5CB0R46835	
2	UpCaASMW/KB L81FK PG NBL THAI	5CB0R46768	
2	UpCaASMW/KB L81FK PG NBL POR	5CB0R47033	
2	UpCaASMW/KB L81FK PG NBL LA SPA	5CB0R46895	
2	UpCaASMW/KB L81FK PG NBL FRA/ENG	5CB0R46865	
2	UpCaASMW/KB L81FK PG NBL KOR	5CB0R47038	
2	UpCaASMW/KB L81FK PG NBL TC	5CB0R46960	
2	UpCaASMW/KB L81FK PG NBL RUS	5CB0R46898	
2	UpCaASMW/KB L81FK PG NBL FRA	5CB0R46815	
2	UpCaASMW/KB L81FK PG NBL GER	5CB0R46909	
2	UpCaASMW/KB L81FK PG NBL ARA	5CB0R46772	
2	UpCaASMW/KB L81FK PG NBL BRL	5CB0R46822	
2	UpCaASMW/KB L81FK PG NBL GRE	5CB0R47009	
2	UpCaASMW/KB L81FK PG NBL HBW	5CB0R46839	
2	UpCaASMW/KB L81FK PG NBL HUN	5CB0R46972	
2	UpCaASMW/KB L81FK PG NBL NORDIC	5CB0R47001	
2	UpCaASMW/KB L81FK PG NBL BEL	5CB0R46847	
2	UpCaASMW/KB L81FK PG NBL ILD	5CB0R46981	
2	UpCaASMW/KB L81FK PG NBL SL	5CB0R46785	
2	UpCaASMW/KB L81FK PG NBL SWS	5CB0R47048	
2	UpCaASMW/KB L81FK PG NBL EURO	5CB0R46858	
2	UpCaASMW/KB L81FK PG NBL CZE/SLK	5CB0R46934	
2	UpCaASMW/KB L81FK PG NBL BUL	5CB0R46775	
2	UpCaASMW/KB L81FK PG NBL HIN	5CB0R46982	
2	UpCaASMW/KB L81FK PG NBL FRA/ARA	5CB0R46989	
2	UpCaASMW/KB L81FK PG NBL UKR	5CB0R46941	
2	UpCaASMW/KB L81FK LBU BL ENG	5CB0R46970	
2	UpCaASMW/KB L81FK LBU BL UKE	5CB0R46890	
2	UpCaASMW/KB L81FK LBU BL ITA	5CB0R46899	
2	UpCaASMW/KB L81FK LBU BL SPA	5CB0R46854	

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK LBU BL TUR	5CB0R46832	N
2	UpCaASMW/KB L81FK LBU BL THAI	5CB0R46944	
2	UpCaASMW/KB L81FK LBU BL POR	5CB0R46825	
2	UpCaASMW/KB L81FK LBU BL LA SPA	5CB0R46926	
2	UpCaASMW/KB L81FK LBU BL FRA/ENG	5CB0R46776	
2	UpCaASMW/KB L81FK LBU BL KOR	5CB0R46907	
2	UpCaASMW/KB L81FK LBU BL TC	5CB0R46900	
2	UpCaASMW/KB L81FK LBU BL RUS	5CB0R46823	
2	UpCaASMW/KB L81FK LBU BL FRA	5CB0R46851	
2	UpCaASMW/KB L81FK LBU BL GER	5CB0R46931	
2	UpCaASMW/KB L81FK LBU BL ARA	5CB0R46984	
2	UpCaASMW/KB L81FK LBU BL BRL	5CB0R46901	
2	UpCaASMW/KB L81FK LBU BL GRE	5CB0R46753	
2	UpCaASMW/KB L81FK LBU BL HBW	5CB0R47030	
2	UpCaASMW/KB L81FK LBU BL HUN	5CB0R47006	
2	UpCaASMW/KB L81FK LBU BL NORDIC	5CB0R46868	
2	UpCaASMW/KB L81FK LBU BL BEL	5CB0R46902	
2	UpCaASMW/KB L81FK LBU BL ILD	5CB0R46910	
2	UpCaASMW/KB L81FK LBU BL SL	5CB0R46936	
2	UpCaASMW/KB L81FK LBU BL SWS	5CB0R46791	
2	UpCaASMW/KB L81FK LBU BL EURO	5CB0R46947	
2	UpCaASMW/KB L81FK LBU BL CZE/SLK	5CB0R46957	
2	UpCaASMW/KB L81FK LBU BL BUL	5CB0R46916	
2	UpCaASMW/KB L81FK LBU BL HIN	5CB0R46751	
2	UpCaASMW/KB L81FK LBU BL FRA/ARA	5CB0R46950	
2	UpCaASMW/KB L81FK LBU BL UKR	5CB0R46864	
2	UpCaASMW/KB L81FK LBU NBL ENG	5CB0R47043	
2	UpCaASMW/KB L81FK LBU NBL UKE	5CB0R46792	
2	UpCaASMW/KB L81FK LBU NBL ITA	5CB0R46966	
2	UpCaASMW/KB L81FK LBU NBL SPA	5CB0R46908	
2	UpCaASMW/KB L81FK LBU NBL TUR	5CB0R47024	
2	UpCaASMW/KB L81FK LBU NBL THAI	5CB0R46804	
2	UpCaASMW/KB L81FK LBU NBL POR	5CB0R46887	
2	UpCaASMW/KB L81FK LBU NBL LA SPA	5CB0R46893	
2	UpCaASMW/KB L81FK LBU NBL FRA/ENG	5CB0R47026	
2	UpCaASMW/KB L81FK LBU NBL KOR	5CB0R46834	
2	UpCaASMW/KB L81FK LBU NBL TC	5CB0R46844	
2	UpCaASMW/KB L81FK LBU NBL RUS	5CB0R46990	
2	UpCaASMW/KB L81FK LBU NBL FRA	5CB0R46763	
2	UpCaASMW/KB L81FK LBU NBL GER	5CB0R47034	
2	UpCaASMW/KB L81FK LBU NBL ARA	5CB0R46965	
2	UpCaASMW/KB L81FK LBU NBL BRL	5CB0R46803	
2	UpCaASMW/KB L81FK LBU NBL GRE	5CB0R46911	
2	UpCaASMW/KB L81FK LBU NBL HBW	5CB0R46939	
2	UpCaASMW/KB L81FK LBU NBL HUN	5CB0R46800	
2	UpCaASMW/KB L81FK LBU NBL NORDIC	5CB0R46769	
2	UpCaASMW/KB L81FK LBU NBL BEL	5CB0R46866	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK LBU NBL ILD	5CB0R47016	N
2	UpCaASMW/KB L81FK LBU NBL SL	5CB0R46963	
2	UpCaASMW/KB L81FK LBU NBL SWS	5CB0R46979	
2	UpCaASMW/KB L81FK LBU NBL EURO	5CB0R46777	
2	UpCaASMW/KB L81FK LBU NBL CZE/SLK	5CB0R46798	
2	UpCaASMW/KB L81FK LBU NBL BUL	5CB0R46976	
2	UpCaASMW/KB L81FK LBU NBL HIN	5CB0R46807	
2	UpCaASMW/KB L81FK LBU NBL FRA/ARA	5CB0R46780	
2	UpCaASMW/KB L81FK LBU NBL UKR	5CB0R46826	
2	UpCaASMW/KB L81FK LCHO BL ENG	5CB0R47049	
2	UpCaASMW/KB L81FK LCHO BL UKE	5CB0R46881	
2	UpCaASMW/KB L81FK LCHO BL ITA	5CB0R46869	
2	UpCaASMW/KB L81FK LCHO BL SPA	5CB0R46831	
2	UpCaASMW/KB L81FK LCHO BL TUR	5CB0R46961	
2	UpCaASMW/KB L81FK LCHO BL THAI	5CB0R46816	
2	UpCaASMW/KB L81FK LCHO BL POR	5CB0R46977	
2	UpCaASMW/KB L81FK LCHO BL LA SPA	5CB0R46948	
2	UpCaASMW/KB L81FK LCHO BL FRA/ENG	5CB0R47040	
2	UpCaASMW/KB L81FK LCHO BL KOR	5CB0R46846	
2	UpCaASMW/KB L81FK LCHO BL TC	5CB0R46991	
2	UpCaASMW/KB L81FK LCHO BL RUS	5CB0R46946	
2	UpCaASMW/KB L81FK LCHO BL FRA	5CB0R46987	
2	UpCaASMW/KB L81FK LCHO BL GER	5CB0R46764	
2	UpCaASMW/KB L81FK LCHO BL ARA	5CB0R47000	
2	UpCaASMW/KB L81FK LCHO BL BRL	5CB0R46974	
2	UpCaASMW/KB L81FK LCHO BL GRE	5CB0R46923	
2	UpCaASMW/KB L81FK LCHO BL HBW	5CB0R46754	
2	UpCaASMW/KB L81FK LCHO BL HUN	5CB0R46883	
2	UpCaASMW/KB L81FK LCHO BL NORDIC	5CB0R46949	
2	UpCaASMW/KB L81FK LCHO BL BEL	5CB0R47035	
2	UpCaASMW/KB L81FK LCHO BL ILD	5CB0R46870	
2	UpCaASMW/KB L81FK LCHO BL SL	5CB0R46969	
2	UpCaASMW/KB L81FK LCHO BL SWS	5CB0R46760	
2	UpCaASMW/KB L81FK LCHO BL EURO	5CB0R46817	
2	UpCaASMW/KB L81FK LCHO BL CZE/SLK	5CB0R47018	
2	UpCaASMW/KB L81FK LCHO BL BUL	5CB0R46992	
2	UpCaASMW/KB L81FK LCHO BL HIN	5CB0R46978	
2	UpCaASMW/KB L81FK LCHO BL FRA/ARA	5CB0R46874	
2	UpCaASMW/KB L81FK LCHO BL UKR	5CB0R46784	
2	UpCaASMW/KB L81FK LCHO NBL ENG	5CB0R46782	
2	UpCaASMW/KB L81FK LCHO NBL UKE	5CB0R46951	
2	UpCaASMW/KB L81FK LCHO NBL ITA	5CB0R46888	
2	UpCaASMW/KB L81FK LCHO NBL SPA	5CB0R46938	
2	UpCaASMW/KB L81FK LCHO NBL TUR	5CB0R46812	
2	UpCaASMW/KB L81FK LCHO NBL THAI	5CB0R47041	
2	UpCaASMW/KB L81FK LCHO NBL POR	5CB0R46861	
2	UpCaASMW/KB L81FK LCHO NBL LA SPA	5CB0R46973	

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FK LCHO NBL FRA/ENG	5CB0R46933	N
2	UpCaASMW/KB L81FK LCHO NBL KOR	5CB0R46985	
2	UpCaASMW/KB L81FK LCHO NBL TC	5CB0R46996	
2	UpCaASMW/KB L81FK LCHO NBL RUS	5CB0R46809	
2	UpCaASMW/KB L81FK LCHO NBL FRA	5CB0R46968	
2	UpCaASMW/KB L81FK LCHO NBL GER	5CB0R46755	
2	UpCaASMW/KB L81FK LCHO NBL ARA	5CB0R46894	
2	UpCaASMW/KB L81FK LCHO NBL BRL	5CB0R46860	
2	UpCaASMW/KB L81FK LCHO NBL GRE	5CB0R46918	
2	UpCaASMW/KB L81FK LCHO NBL HBW	5CB0R46967	
2	UpCaASMW/KB L81FK LCHO NBL HUN	5CB0R46821	
2	UpCaASMW/KB L81FK LCHO NBL NORDIC	5CB0R46912	
2	UpCaASMW/KB L81FK LCHO NBL BEL	5CB0R46830	
2	UpCaASMW/KB L81FK LCHO NBL ILD	5CB0R46762	
2	UpCaASMW/KB L81FK LCHO NBL SL	5CB0R46952	
2	UpCaASMW/KB L81FK LCHO NBL SWS	5CB0R47037	
2	UpCaASMW/KB L81FK LCHO NBL EURO	5CB0R46852	
2	UpCaASMW/KB L81FK LCHO NBL CZE/SLK	5CB0R46805	
2	UpCaASMW/KB L81FK LCHO NBL BUL	5CB0R47021	
2	UpCaASMW/KB L81FK LCHO NBL HIN	5CB0R47011	
2	UpCaASMW/KB L81FK LCHO NBL FRA/ARA	5CB0R47028	
2	UpCaASMW/KB L81FK LCHO NBL UKR	5CB0R46841	
3	MBL81FK I58300H V4G D4G WIN	5B20R46737	
3	MBL81FK I58300H V4G D4G NOK	5B20R46729	
3	MBL81FK I58300H V2G NR WIN	5B20R46736	
3	MBL81FK I58300H V2G NR NOK	5B20R46739	
3	MBL81FK I58300H V4G NR WIN	5B20R46730	
3	MBL81FK I58300H V4G NR NOK	5B20R46731	
3	MBL81FK I58300H V2G D4G WIN	5B20R46734	
3	MBL81FK I58300H V2G D4G NOK	5B20R46726	
3	MBL81FK I78750H V4G NR WIN	5B20R46728	
3	MBL81FK I78750H V4G NR NOK	5B20R46732	
3	MBL81FK I78750H V2G D4G WIN	5B20R46725	
3	MBL81FK I78750H V2G D4G NOK	5B20R46735	
3	MBL81FK I78750H V4G D4G WIN	5B20R46740	
3	MBL81FK I78750H V4G D4G NOK	5B20R46733	
3	MBL81FK I78750H V2G NR WIN	5B20R46738	
3	MBL81FK I78750H V2G NR NOK	5B20R46727	
4	Thermal module DIS L81FK	5H40R46700	
5	RTC BATTERY L81FK	5B10R46704	
6	Speaker L81FK L+R 15T	5SB0R46703	
7	FAN L81FK	5F10R46698	
8	HDD FFC L81FK	5C10R46696	
9	LOWER CASE L81FK WHITE	5CB0R46701	
9	LOWER CASE L81FK GRAPHITE GREY	5CB0R46705	
9	LOWER CASE L81FK LIGHT BLUE	5CB0R46702	
9	LOWER CASE L81FK LIGHT CHOCOLATE	5CB0R46699	

Table 4. Parts list—Overall

ideapad 330-17ICH

No.	FRU	FRU no.	CRU ID.
a	See "Miscellaneous parts" on page 82.		
1	LCD unit (see "LCD FRUs" on page 78).		
2	UpCaASMW/KB L81FL PG NBL ENG	5CB0R48065	N
2	UpCaASMW/KB L81FL PG NBL UKE	5CB0R48145	
2	UpCaASMW/KB L81FL PG NBL ITA	5CB0R48123	
2	UpCaASMW/KB L81FL PG NBL SPA	5CB0R48095	
2	UpCaASMW/KB L81FL PG NBL TUR	5CB0R48061	
2	UpCaASMW/KB L81FL PG NBL THAI	5CB0R48093	
2	UpCaASMW/KB L81FL PG NBL POR	5CB0R48117	
2	UpCaASMW/KB L81FL PG NBL LA SPA	5CB0R48142	
2	UpCaASMW/KB L81FL PG NBL FRA/ENG	5CB0R48078	
2	UpCaASMW/KB L81FL PG NBL KOR	5CB0R48032	
2	UpCaASMW/KB L81FL PG NBL TC	5CB0R48033	
2	UpCaASMW/KB L81FL PG NBL RUS	5CB0R48052	
2	UpCaASMW/KB L81FL PG NBL FRA	5CB0R48128	
2	UpCaASMW/KB L81FL PG NBL GER	5CB0R48073	
2	UpCaASMW/KB L81FL PG NBL ARA	5CB0R48028	
2	UpCaASMW/KB L81FL PG NBL BRL	5CB0R48041	
2	UpCaASMW/KB L81FL PG NBL GRE	5CB0R48127	
2	UpCaASMW/KB L81FL PG NBL HBW	5CB0R48112	
2	UpCaASMW/KB L81FL PG NBL HUN	5CB0R48054	
2	UpCaASMW/KB L81FL PG NBL NORDIC	5CB0R48098	
2	UpCaASMW/KB L81FL PG NBL BEL	5CB0R48131	
2	UpCaASMW/KB L81FL PG NBL ILD	5CB0R48088	
2	UpCaASMW/KB L81FL PG NBL SL	5CB0R48120	
2	UpCaASMW/KB L81FL PG NBL SWS	5CB0R48058	
2	UpCaASMW/KB L81FL PG NBL EURO	5CB0R48082	
2	UpCaASMW/KB L81FL PG NBL CZE/SLK	5CB0R48083	
2	UpCaASMW/KB L81FL PG NBL BUL	5CB0R48047	
2	UpCaASMW/KB L81FL PG NBL HIN	5CB0R48104	
2	UpCaASMW/KB L81FL PG NBL FRA/ARA	5CB0R48029	
2	UpCaASMW/KB L81FL PG NBL UKR	5CB0R48099	
2	UpCaASMW/KB L81FL IG NBL ENG	5CB0R48140	
2	UpCaASMW/KB L81FL IG NBL UKE	5CB0R48136	
2	UpCaASMW/KB L81FL IG NBL ITA	5CB0R48092	
2	UpCaASMW/KB L81FL IG NBL SPA	5CB0R48064	
2	UpCaASMW/KB L81FL IG NBL TUR	5CB0R48072	
2	UpCaASMW/KB L81FL IG NBL THAI	5CB0R48076	
2	UpCaASMW/KB L81FL IG NBL POR	5CB0R48133	
2	UpCaASMW/KB L81FL IG NBL LA SPA	5CB0R48086	
2	UpCaASMW/KB L81FL IG NBL FRA/ENG	5CB0R48084	
2	UpCaASMW/KB L81FL IG NBL KOR	5CB0R48034	
2	UpCaASMW/KB L81FL IG NBL TC	5CB0R48046	
2	UpCaASMW/KB L81FL IG NBL RUS	5CB0R48066	
2	UpCaASMW/KB L81FL IG NBL FRA	5CB0R48101	
2	UpCaASMW/KB L81FL IG NBL GER	5CB0R48089	

*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FL IG NBL ARA	5CB0R48030	N
2	UpCaASMW/KB L81FL IG NBL BRL	5CB0R48137	
2	UpCaASMW/KB L81FL IG NBL GRE	5CB0R48036	
2	UpCaASMW/KB L81FL IG NBL HBW	5CB0R48100	
2	UpCaASMW/KB L81FL IG NBL HUN	5CB0R48031	
2	UpCaASMW/KB L81FL IG NBL NORDIC	5CB0R48071	
2	UpCaASMW/KB L81FL IG NBL BEL	5CB0R48143	
2	UpCaASMW/KB L81FL IG NBL ILD	5CB0R48105	
2	UpCaASMW/KB L81FL IG NBL SL	5CB0R48040	
2	UpCaASMW/KB L81FL IG NBL SWS	5CB0R48057	
2	UpCaASMW/KB L81FL IG NBL EURO	5CB0R48079	
2	UpCaASMW/KB L81FL IG NBL CZE/SLK	5CB0R48043	
2	UpCaASMW/KB L81FL IG NBL BUL	5CB0R48125	
2	UpCaASMW/KB L81FL IG NBL HIN	5CB0R48060	
2	UpCaASMW/KB L81FL IG NBL FRA/ARA	5CB0R48103	
2	UpCaASMW/KB L81FL IG NBL UKR	5CB0R48059	
2	UpCaASMW/KB L81FL PG BL ENG	5CB0R48090	
2	UpCaASMW/KB L81FL PG BL GRE	5CB0R48107	
2	UpCaASMW/KB L81FL PG BL EURO	5CB0R48044	
2	UpCaASMW/KB L81FL PG BL KOR	5CB0R48097	
2	UpCaASMW/KB L81FL PG BL TC	5CB0R48110	
2	UpCaASMW/KB L81FL PG BL RUS	5CB0R48048	
2	UpCaASMW/KB L81FL PG BL ARA	5CB0R48124	
2	UpCaASMW/KB L81FL PG BL HBW	5CB0R48096	
2	UpCaASMW/KB L81FL PG BL THAI	5CB0R48108	
2	UpCaASMW/KB L81FL PG BL HIN	5CB0R48135	
2	UpCaASMW/KB L81FL PG BL UKE	5CB0R48035	
2	UpCaASMW/KB L81FL PG BL ITA	5CB0R48038	
2	UpCaASMW/KB L81FL PG BL SPA	5CB0R48126	
2	UpCaASMW/KB L81FL PG BL TUR	5CB0R48069	
2	UpCaASMW/KB L81FL PG BL POR	5CB0R48111	
2	UpCaASMW/KB L81FL PG BL LA SPA	5CB0R48146	
2	UpCaASMW/KB L81FL PG BL FRA/ENG	5CB0R48106	
2	UpCaASMW/KB L81FL PG BL NORDIC	5CB0R48075	
2	UpCaASMW/KB L81FL PG BL FRA	5CB0R48080	
2	UpCaASMW/KB L81FL PG BL GER	5CB0R48113	
2	UpCaASMW/KB L81FL PG BL HUN	5CB0R48068	
2	UpCaASMW/KB L81FL PG BL BEL	5CB0R48063	
2	UpCaASMW/KB L81FL PG BL ILD	5CB0R48085	
2	UpCaASMW/KB L81FL PG BL SL	5CB0R48139	
2	UpCaASMW/KB L81FL PG BL SWS	5CB0R48122	
2	UpCaASMW/KB L81FL PG BL BUL	5CB0R48119	
2	UpCaASMW/KB L81FL PG BL CZE/SLK	5CB0R48114	
2	UpCaASMW/KB L81FL PG BL BRL	5CB0R48118	
2	UpCaASMW/KB L81FL PG BL FRA/ARA	5CB0R48037	
2	UpCaASMW/KB L81FL PG BL UKR	5CB0R48141	
2	UpCaASMW/KB L81FL PG BL USA	5CB0R48903	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaASMW/KB L81FL IG BL ENG	5CB0R48070	N
2	UpCaASMW/KB L81FL IG BL GRE	5CB0R48121	
2	UpCaASMW/KB L81FL IG BL EURO	5CB0R48051	
2	UpCaASMW/KB L81FL IG BL KOR	5CB0R48081	
2	UpCaASMW/KB L81FL IG BL TC	5CB0R48042	
2	UpCaASMW/KB L81FL IG BL RUS	5CB0R48132	
2	UpCaASMW/KB L81FL IG BL ARA	5CB0R48074	
2	UpCaASMW/KB L81FL IG BL HBW	5CB0R48091	
2	UpCaASMW/KB L81FL IG BL THAI	5CB0R48055	
2	UpCaASMW/KB L81FL IG BL HIN	5CB0R48130	
2	UpCaASMW/KB L81FL IG BL UKE	5CB0R48050	
2	UpCaASMW/KB L81FL IG BL ITA	5CB0R48045	
2	UpCaASMW/KB L81FL IG BL SPA	5CB0R48138	
2	UpCaASMW/KB L81FL IG BL TUR	5CB0R48087	
2	UpCaASMW/KB L81FL IG BL POR	5CB0R48049	
2	UpCaASMW/KB L81FL IG BL LA SPA	5CB0R48102	
2	UpCaASMW/KB L81FL IG BL FRA/ENG	5CB0R48129	
2	UpCaASMW/KB L81FL IG BL NORDIC	5CB0R48039	
2	UpCaASMW/KB L81FL IG BL FRA	5CB0R48077	
2	UpCaASMW/KB L81FL IG BL GER	5CB0R48144	
2	UpCaASMW/KB L81FL IG BL HUN	5CB0R48134	
2	UpCaASMW/KB L81FL IG BL BEL	5CB0R48115	
2	UpCaASMW/KB L81FL IG BL ILD	5CB0R48147	
2	UpCaASMW/KB L81FL IG BL SL	5CB0R48109	
2	UpCaASMW/KB L81FL IG BL SWS	5CB0R48053	
2	UpCaASMW/KB L81FL IG BL BUL	5CB0R48094	
2	UpCaASMW/KB L81FL IG BL CZE/SLK	5CB0R48062	
2	UpCaASMW/KB L81FL IG BL BRL	5CB0R48116	
2	UpCaASMW/KB L81FL IG BL FRA/ARA	5CB0R48056	
2	UpCaASMW/KB L81FL IG BL UKR	5CB0R48067	
2	UpCaASMW/KB L81FL IG BL USA	5CB0R48904	
3	MBL81FK I58300H V4G D4G WIN	5B20R46737	
3	MBL81FK I58300H V4G D4G NOK	5B20R46729	
3	MBL81FK I58300H V2G NR WIN	5B20R46736	
3	MBL81FK I58300H V2G NR NOK	5B20R46739	
3	MBL81FK I58300H V4G NR WIN	5B20R46730	
3	MBL81FK I58300H V4G NR NOK	5B20R46731	
3	MBL81FK I58300H V2G D4G WIN	5B20R46734	
3	MBL81FK I58300H V2G D4G NOK	5B20R46726	
3	MBL81FK I78750H V4G NR WIN	5B20R46728	
3	MBL81FK I78750H V4G NR NOK	5B20R46732	
3	MBL81FK I78750H V2G D4G WIN	5B20R46725	
3	MBL81FK I78750H V2G D4G NOK	5B20R46735	
3	MBL81FK I78750H V4G D4G WIN	5B20R46740	
3	MBL81FK I78750H V4G D4G NOK	5B20R46733	
3	MBL81FK I78750H V2G NR WIN	5B20R46738	
3	MBL81FK I78750H V2G NR NOK	5B20R46727	

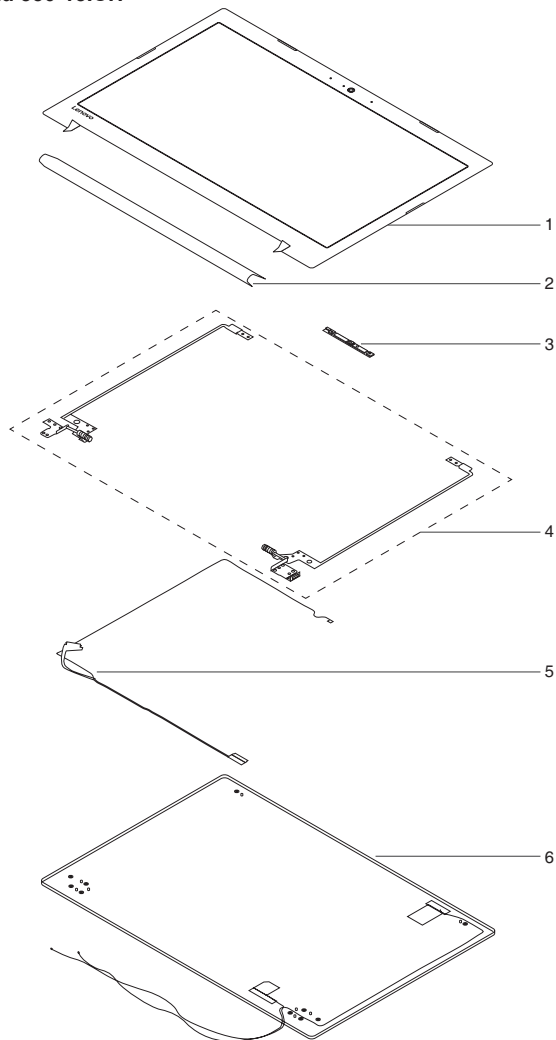
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ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
4	Thermal module DIS L81FK	5H40R46700	N
5	RTC BATTERY L81FK	5B10R46704	
6	SPEAKER L81FL	5SB0R48152	
7	FAN L81FK	5F10R46698	
8	HDD FFC L81FL	5C10R48156	
9	LOWER CASE L81FL GRAPHITE GREY	5CB0R48151	

LCD FRUs

ideapad 330-15ICH



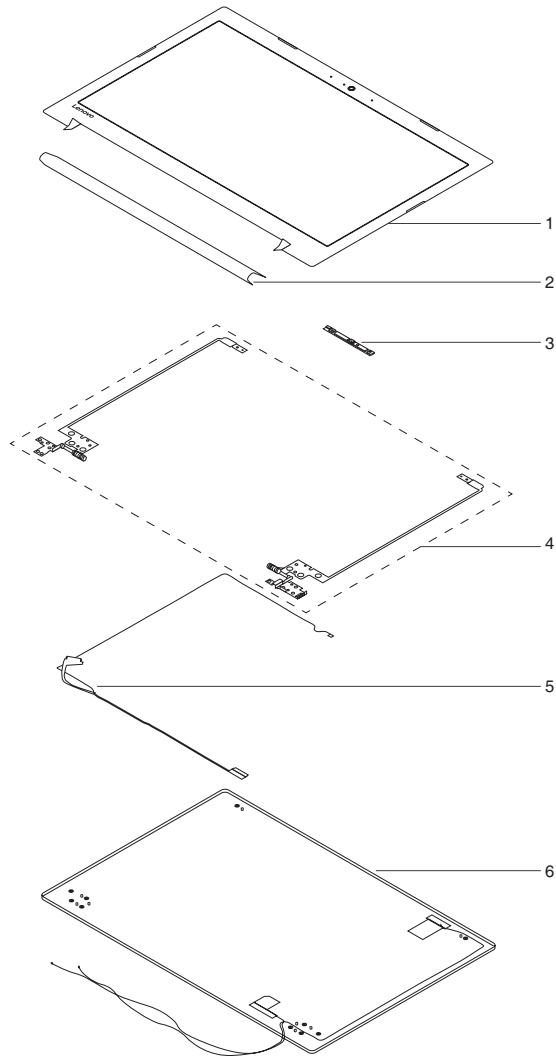
*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 5. Parts list—LCD FRUs

ideapad 330-15ICH

No.	FRU	FRU no.	CRU ID.
1	LCDBEZEL ASSY L81D2 15TBLACK	5B30R42338	N
2	HINGE CAP L81DC 15T MN BU	5CB0R16699	
2	HINGE CAP L81DC 15T CHOC	5CB0R16636	
2	HINGECAP15TL80XL BW PT	5CB0N86453	
2	HINGECAP15TL80XL PG PT	5CB0N86380	
2	HINGECAP15TL80XL OB PT	5CB0N86462	
3	CAMERA L81FK 720P W/2MIC	5C20R46706	
4	HINGE LR 15T L80XL	5H50N86361	
5	EDP CABLE L81FK	5C10R48796	
6	LCD COVER L81FK WHITE W/ANTE W/EDP	5CB0R48727	
6	LCD COVER L81FK PG W/ANTE W/EDP	5CB0R48725	
6	LCD COVER L81FK OB W/ANTE W/EDP	5CB0R48728	
6	LCD COVER L81FK MNBU W/ANTE W/EDP	5CB0R48724	
6	LCD COVER L81FK CHOC W/ANTE W/EDP	5CB0R48726	

ideapad 330-17ICH



*Lenovo ideapad 330-15ICH/ideapad 330H-15ICH/ideapad 330L-15ICH/
ideapad 330E-15ICH/ideapad 330R-15ICH/ideapad 330-17ICH/ideapad 330H-17ICH/
ideapad 330L-17ICH/ideapad 330E-17ICH/ideapad 330R-17ICH*

Table 5. Parts list—LCD FRUs

ideapad 330-17ICH

No.	FRU	FRU no.	CRU ID.
1	LCD BEZEL L80XM	5B30N91539	N
2	HINGE CAP L80XM OB	5CB0N91547	
2	HINGE CAP L80XM PG	5CB0N91542	
3	CAMERA L81FL 720P W/MIC	5C20R47771	
4	HINGE L+R L81FL	5H50R48149	
5	EDP CABLE L81FL	5C10R48150	
6	LCD COVER L81FL OB W/ANTE W/EDP	5CB0R48154	
6	LCD COVER L81FL PG W/ANTE W/EDP	5CB0R48153	

Miscellaneous parts

Table 6. Parts list—Miscellaneous parts
ideapad 330-15ICH/ideapad 330-17ICH

FRU	FRU no.	CRU ID.
System miscellaneous parts: • (a)HDD Bracket L81FK	5B40R46707	N
Note: Letters in parentheses are references to the exploded view in “Overall” on page 66 and “LCD FRUs” on page 78.		

Screws

Table 7. Parts list—screws
ideapad 330-15ICH

FRU	P/N	CRU ID.
SCREW L80T6 MM 2.5D 2.5L K 8.0D NI	5S10L45749	N
SCREW L MM1.98D3LK4.5DNINL0.4T	5S10K25435	
AILZA Screw M M 3.0D 3.0L K 4.9D	90203986	
SCREWL80XKMM2.5D7.0LK4.5D0.8T ZKNL	5S10N82242	
Screw L Y700-15ACZ Hinge base	5S10K26861	
ACLU1ScrewD-C/D-KB/ODD-D-MB-KB/FAN	90205118	
SCREWL80XKMM2.5D7.0LK4.5D0.8T NINL	5S10N82325	
Screw L 81A8 2.7L K 4.2D 0.3T ZK	5S10P19039	

ideapad 330-17ICH

FRU	P/N	CRU ID.
SCREW L80T6 MM 2.5D 2.5L K 8.0D NI	5S10L45749	N
Screw L Y700-15ACZ Hinge base	5S10K26861	
ACLU1ScrewD-C/D-KB/ODD-D-MB-KB/FAN	90205118	
SCREW MM2.5D7.0LKTZK L80QH	5S10K61894	
AILZA Screw M M 3.0D 3.0L K 4.9D	90203986	
Screw L Y700-17ISK 2D	5S10K37602	
Screw L 81A8 2.7L K 4.2D 0.3T ZK	5S10P19039	

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