

Lenovo ideapad 330

ideapad 330-14AST/ideapad 330-14AST D/
ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/
ideapad 330L-14AST/ideapad 330E-14AST/
ideapad 330R-14AST/ideapad 330-15AST/
ideapad 330-15AST D/ideapad 330-15AST U/
ideapad 330E-15AST D/ideapad 330E-15AST
U/ideapad 330H-15AST/ideapad 330L-15AST/
ideapad 330E-15AST/ideapad 330R-15AST

Hardware

Maintenance

Manual

Notes:

- Before using this information and the product it supports, be sure to read the general information under “Notices” on page 89.
- This manual applies to the following models: Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST. The illustrations in this manual may differ from the actual product. Please refer to the actual product.

First Edition (April 2018)

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About this manual

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

**Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/
ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/
ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/
ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/
ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST**

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 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST 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
המופיעה 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 Systembatterie ist eine Lithiumbatterie. Sie kann sich entzünden, explodieren oder schwere Verbrennungen hervorrufen. Batterien dieses Typs dürfen nicht aufgeladen, zerlegt, über 100 C erhitzt oder verbrannt werden. Auch darf ihr Inhalt nicht mit Wasser in Verbindung gebracht oder der zur richtigen Polung angebrachte Verbindungsstecker entfernt werden. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Beim Ersetzen der Batterie nur Batterien des Typs verwenden, der in der Ersatzteilliste aufgeführt ist. Der Einsatz falscher Batterien kann zu Entzündung oder Explosion führen.

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 e 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 eljárásoktól, beállításoktól és vezérlésektől
eltérni a lézersugárzás veszélye miatt kockázatos!

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

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

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

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

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

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

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

** DANGER**

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

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

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

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

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

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

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

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

Keď je laserová jednotka otvorená. Vyhnite sa priamemu pohľadu a 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 22
- “Checking the battery pack” on page 22

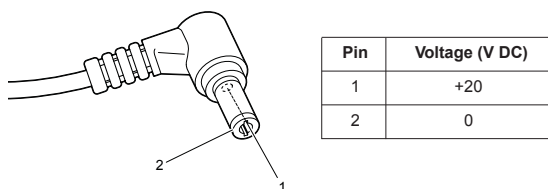
Checking the AC adapter

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

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

To check the AC adapter, follow the steps below:

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



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 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST” 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 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST 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 two power management modes: sleep (standby), and hibernation.

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.
- Move the cursor to the lower-left corner, and then select the Start button.

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.

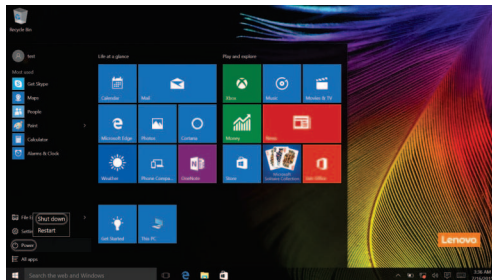
To wake up the computer, perform the following:

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

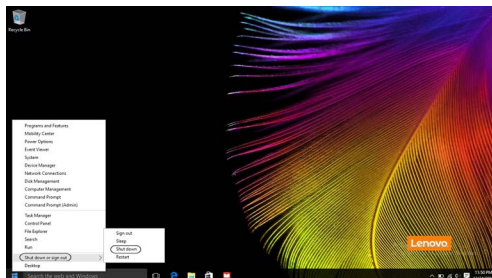
Shutting down the computer

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 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

**Lenovo ideapad 330-14AST/ideapad 330-14AST D/
ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/
ideapad 330L-14AST/ideapad 330E-14AST/
ideapad 330R-14AST/ideapad 330-15AST/
ideapad 330-15AST D/ideapad 330-15AST U/
ideapad 330E-15AST D/ideapad 330E-15AST U/
ideapad 330H-15AST/ideapad 330L-15AST/
ideapad 330E-15AST/ideapad 330R-15AST**

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 69
- “Parts list” on page 71

Specifications

The following table lists the specifications of the Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST:

Table 1. Specifications

Lenovo ideapad 330-14AST Lenovo ideapad 330-15AST		
Form Factor		
Dimensions	Appr. 338.3 mm × 249.9 mm × 22.7 mm	Appr. 378 mm × 260 mm × 22.9 mm
Weight	Appr. 2.1 kg with battery	Appr. 2.2 kg with battery
LCD size	14.0-inch	15.6-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 .		

Lenovo ideapad 330-14AST Lenovo ideapad 330-15AST

Memory	
Type and speed	DDR4-2133 MHz
Maximum supported capacity	8 GB
Slots	SODIMM × 1
SSD	
Interface	SATA 3
Capacity	128 GB / 256 GB
Hard disk drive	
Form factor	2.5-inch, 7 mm
Capacity	500 GB / 1TB / 2TB, 5400 rpm 500 GB / 1TB / 2TB, 5400 rpm SSD + HDD (on select models)
Interface	SATA3 / SATA2
Optical Drive (on select models)	
Form factor	9.0 mm
Type	Writer
Display	
Display resolution (LCD)	1366 × 768 pixels HD/1920 × 1080 pixels FHD
LCD backlight	LED
I/O Ports	
USB	USB 3.0 × 1, USB 2.0 × 1
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	2 Cell, 30 Wh/35 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	DIS 65 W, UMA 45 W
Miscellaneous	
Camera	0.3 M/HD
Security	Kensington slot × 1

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
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ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Status indicators

The system status indicators below show the computer status:

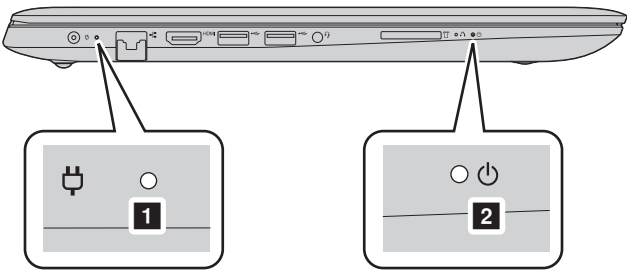


Table 2. Status indicators

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/unlocks the LCD screen.
	:	Enables/disables microphone.		:	Enables the external projector or dangles the external display.
	:	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.

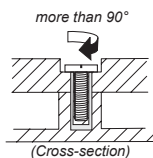
Do the following when you service this machine:

- 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:

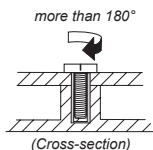
- **Plastic to plastic**

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 33.
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 69.
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.

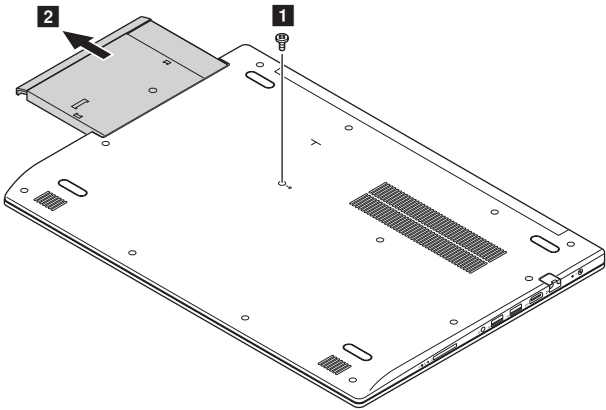
Attention: The system board is sensitive to, and can be damaged by, electrostatic discharge. Before touching it, establish personal grounding by touching a ground point with one hand or using an electrostatic discharge (ESD) strap (P/N 6405959) to remove potential shock reasons.

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
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ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

1010 Optical drive

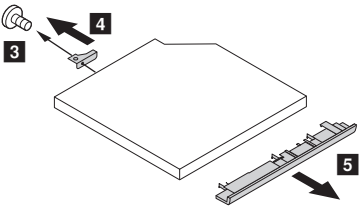
Figure 1. Removal steps of optical drive

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



Step	Screw (quantity)	Color	Torque
1	M2.5 × 7 mm, Phillips head, nylok-coated (1) LOW TO UPPER	Black/ Silver	3.0+/-0.3 kgf/cm

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



Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, Phillips head, nylok-coated (1) ODD BRK TO ODD MODULE	Silver	1.85+/-0.15 kgf/cm

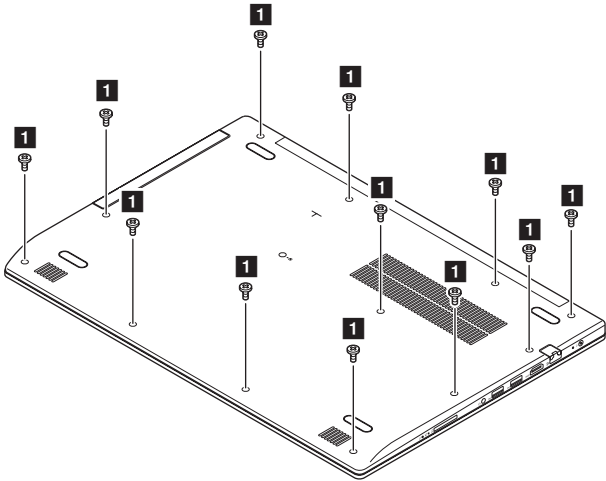
1020 Base cover

For access, remove this FRU:

- “1010 Optical drive” on page 33

Figure 2. Removal steps of base cover

Remove the screws ■.

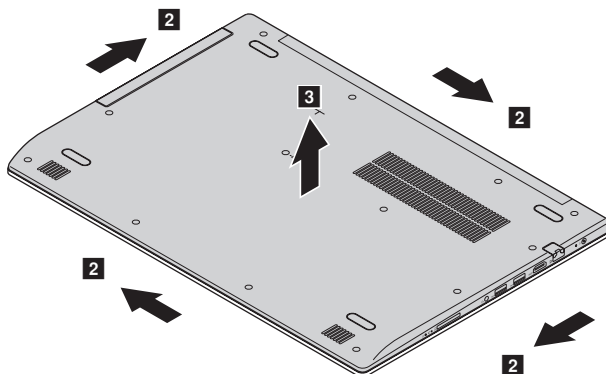


Step	Screw (quantity)	Color	Torque
■	M2.5 × 7 mm, Phillips-head, nylok-coated (12) log low---log up & log low---io board--- log up & log low---mb---log up & log low--- right side hinge---log up & log low---left side hinge---klock bracket---log up	Black/ Silver	3.0+/-0.3 kgf/cm

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 2. Removal steps of base cover (continued)

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



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.

ideapad 330-14IKB

For countries other than China and India:

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

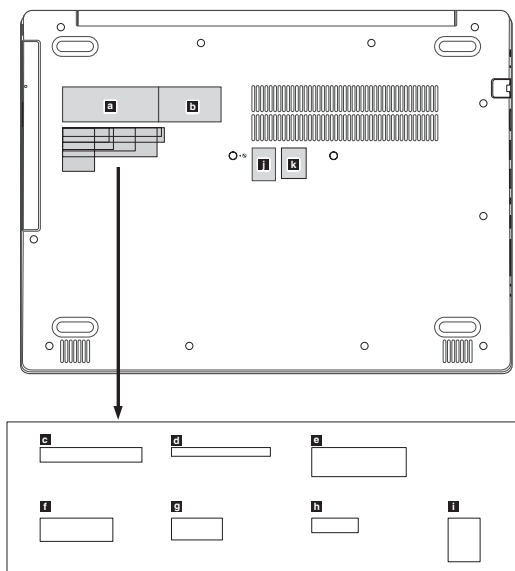
For China and India:

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

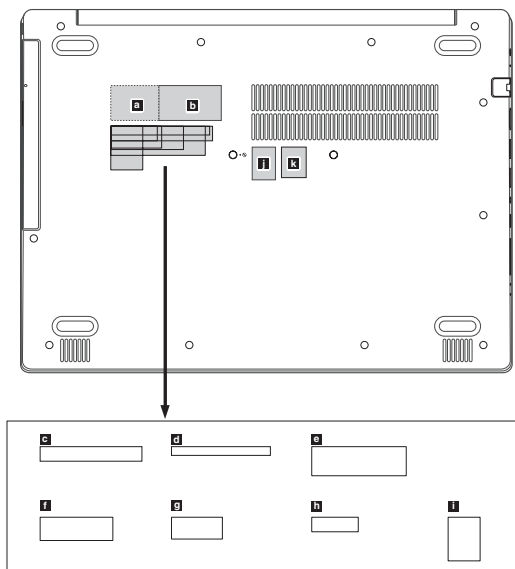
For some models, you also need to apply one or two FCC labels. Check the old base cover; if it has one or two FCC labels, find duplicates of them in the label kit and apply them to the new base cover.

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

For the location of each label, refer to the following figures:
For countries other than China and India:



For China and India:



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.

ideapad 330-15IKB/ideapad 330-15IKB Touch

For countries other than China and India:

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

For China and India:

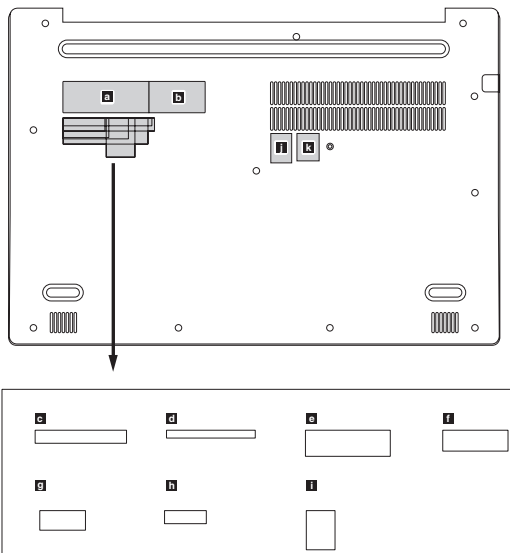
- a** PRC & India Rating label 33 × 24mm
- b** Print rating 43 × 24mm
- c** TW label 70 × 10mm
- d** Argentina label 68 × 6mm
- e** Adapter label 65 × 20mm
- f** KCC label 50 × 16mm
- g** WL/BT label 35 × 15mm
- h** Indonesia label 32 × 10mm
- i** BIS label 22 × 30mm
- j** OS Label 16 × 22.5mm
- k**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

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.

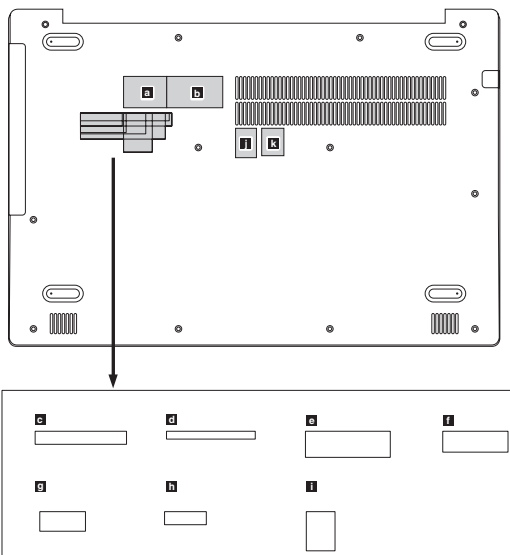
Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
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ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

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

For countries other than China and India:



For China and India:



1030 Battery pack

DANGER

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

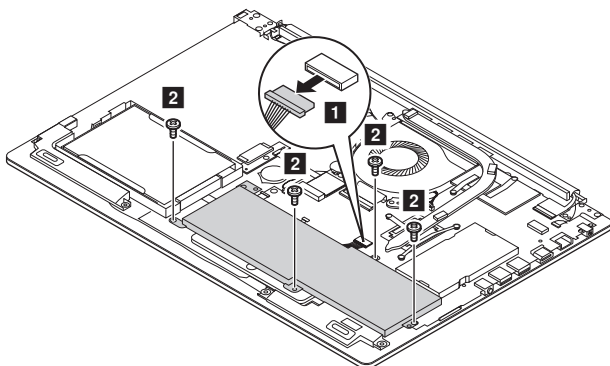
For access, remove these FRUs in order:

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

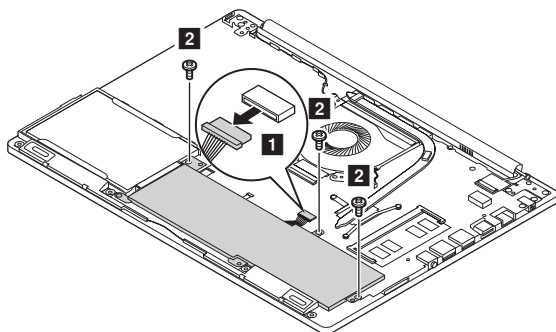
Figure 3. Removal steps of battery pack

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

ideapad 330-15AST



ideapad 330-14AST

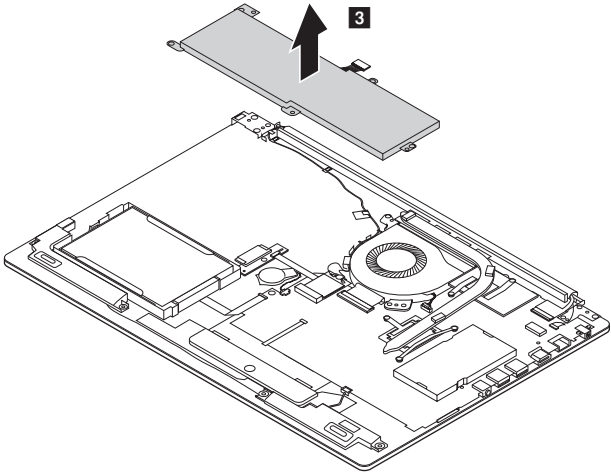


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ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 3. Removal steps of battery pack (continued)

Step	Screw (quantity)	Color	Torque
2	M2 × 6 mm, Phillips-head, nylok-coated (4)	Black	1.85+/-0.15 kgf/cm
2	M2 × 6 mm, Phillips-head, nylok-coated (3)	Black	1.85+/-0.15 kgf/cm

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



1040 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40

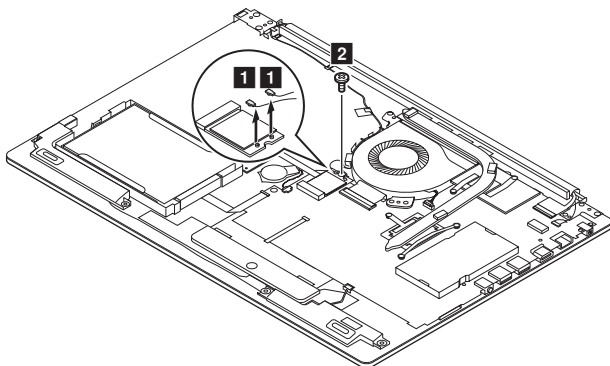
Important:

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 79 for Lenovo part numbers for the approved modules.

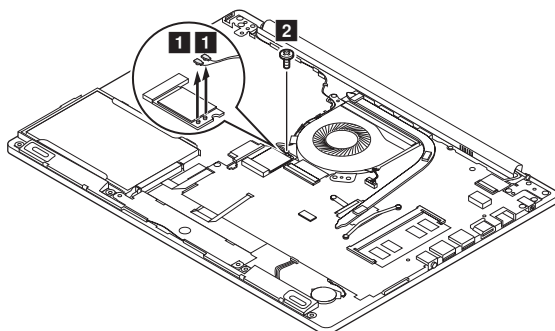
Figure 4. Removal steps of PCI Express Mini Card for wireless LAN

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

ideapad 330-15AST



ideapad 330-14AST



Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
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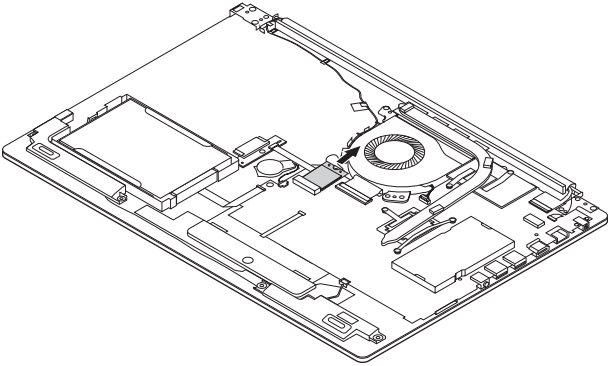
Figure 4. Removal steps of PCI Express Mini Card for wireless LAN (continued)

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.

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

Step	Screw (quantity)	Color	Torque
2	M2 × 3 mm, Phillips-head, nylok-coated (1) wireless card—log up	Silver	1.85+/-0.15 kgf/cm

Remove the card in the direction shown by arrow.



When installing:

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

1050 DIMM

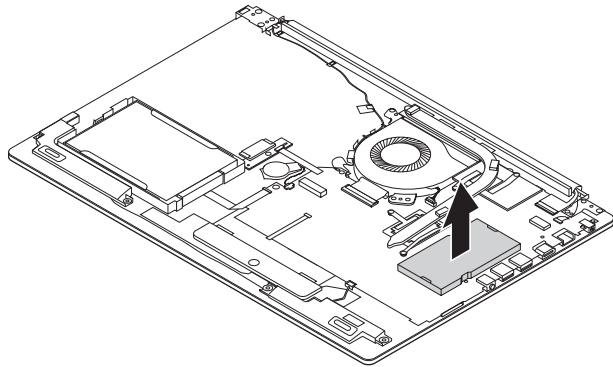
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42

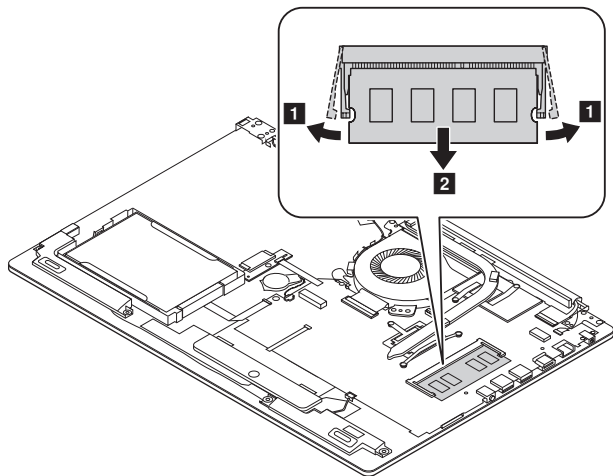
Figure 5. Removal steps of DIMM

ideapad 330-15AST

Insert a flat blade tool into the memory module cover, and then remove the memory module cover manually.



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**.

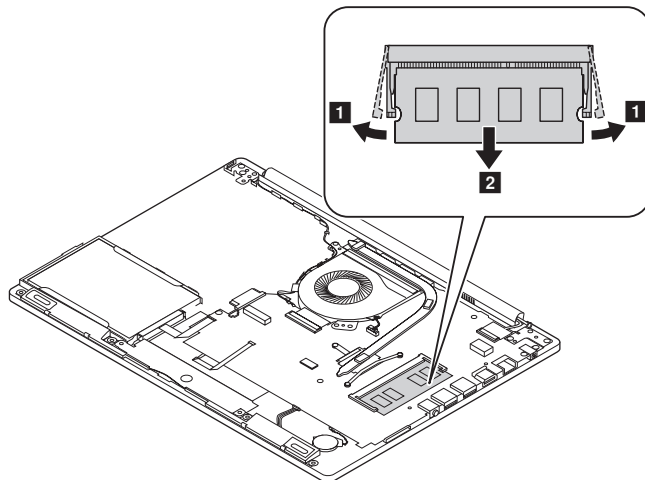


*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
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ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

Figure 5. Removal steps of DIMM (continued)

ideapad 330-14AST

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**.



1060 Hard disk drive

For access, remove these FRUs in order:

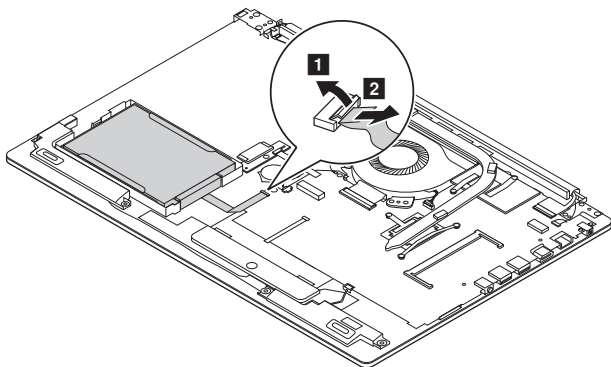
- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44

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 6. Removal steps of hard disk drive

Detach the HDD board connector in the direction shown by arrows **1** and **2**.
Remove the HDD board.

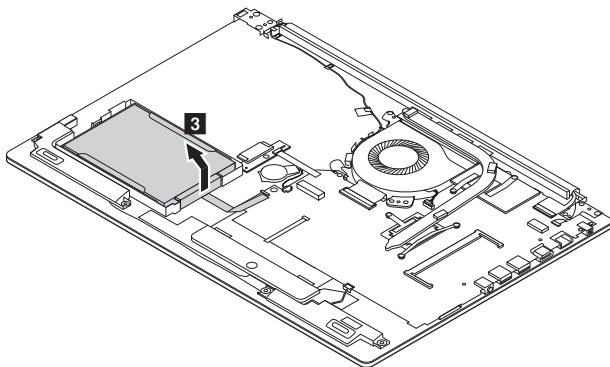


When installing: Make sure that the HDD board connector is attached firmly.

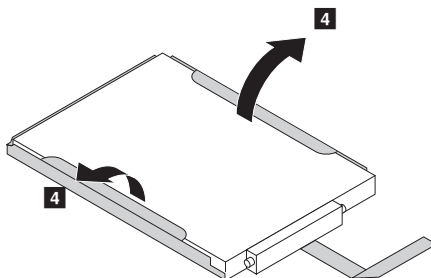
Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 6. Removal steps of hard disk drive (continued)

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



Detach the bracket from the hard disk drive.



1070 Speakers

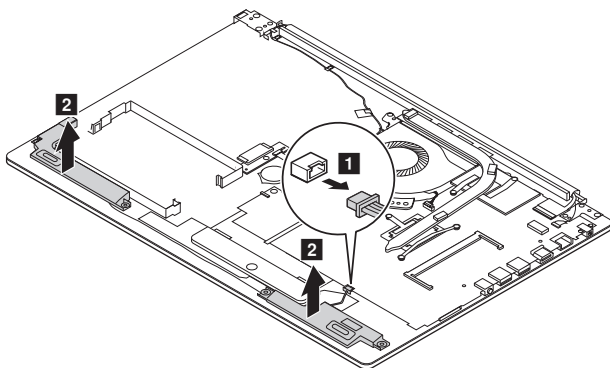
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46

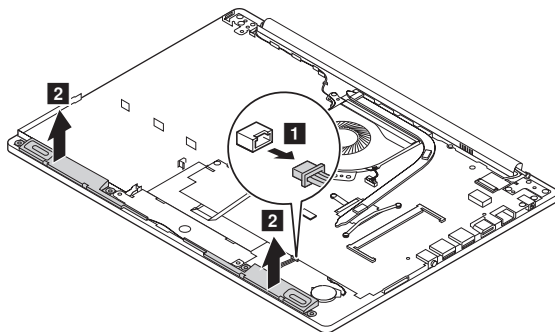
Figure 7. Removal steps of speakers

Unplug the speaker connector ■. Then remove the speakers 2.

ideapad 330-15AST



ideapad 330-14AST



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

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

1080 Fan assembly and Heat Sink assembly

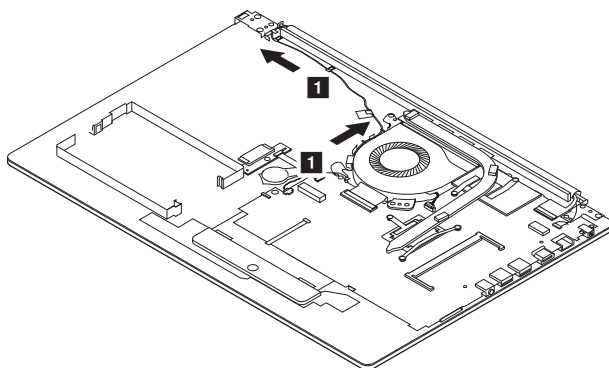
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48

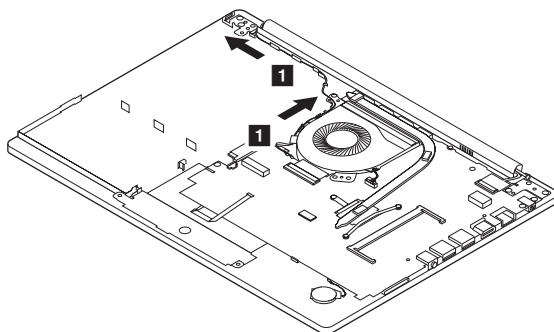
Figure 8. Removal steps of fan assembly and Heat Sink assembly

Release the cables from the cable guides in the direction shown by arrows ■.

ideapad 330-15AST



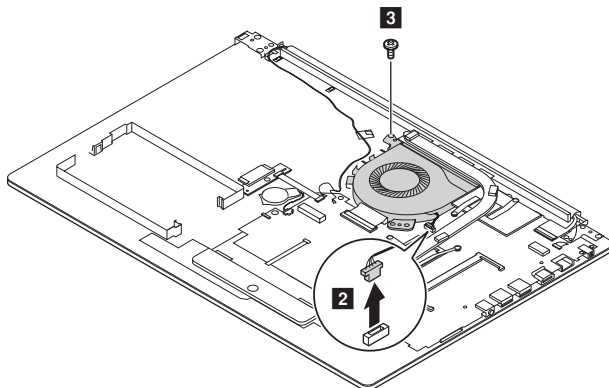
ideapad 330-14AST



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.

Figure 8. Removal steps of fan assembly and Heat Sink assembly (continued)

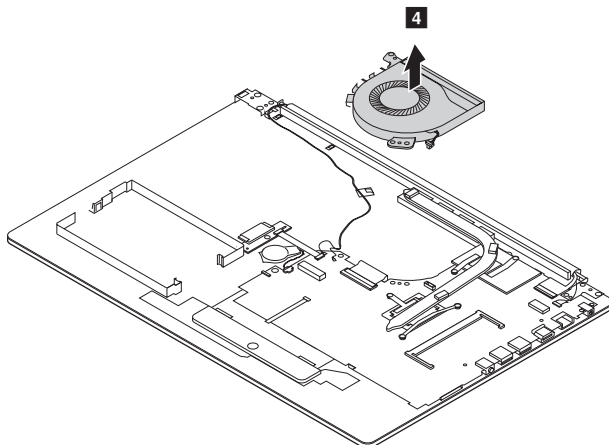
Unplug the fan connector in the direction shown by arrow **2**. Remove the screw **3**.



Step	Screw (quantity)	Color	Torque
3	M2 × 6 mm, Phillips head, nylok-coated (1) fan—mb—log up & fan—log up	Black	1.85+/-0.15 kgf/cm

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

Remove the fan in the direction shown by arrow **4**. Be careful not to damage the connector.

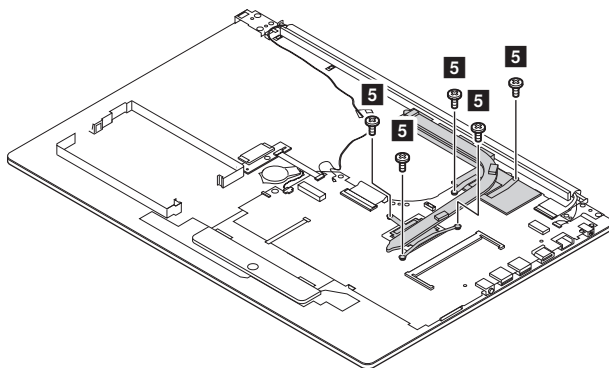


Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 8. Removal steps of fan assembly and Heat Sink assembly (continued)

Remove the screws 5.

ideapad 330-15AST



ideapad 330-14AST

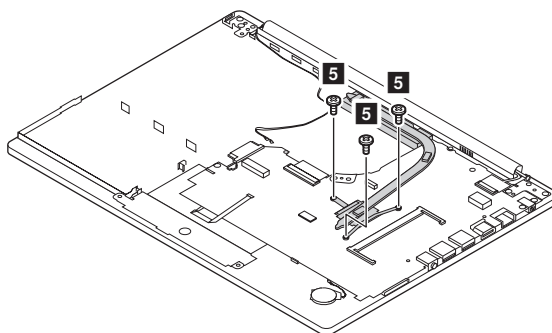
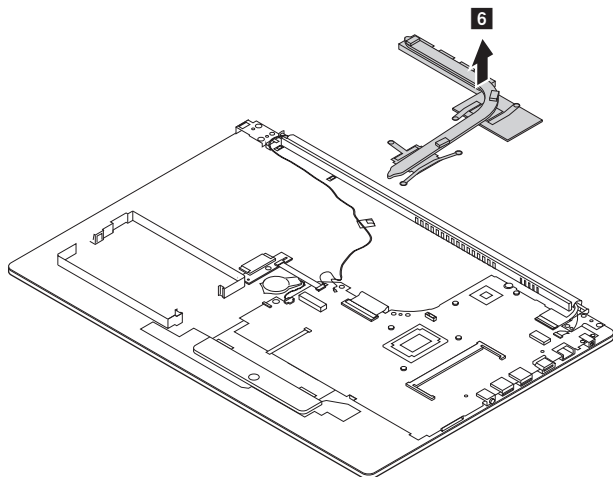


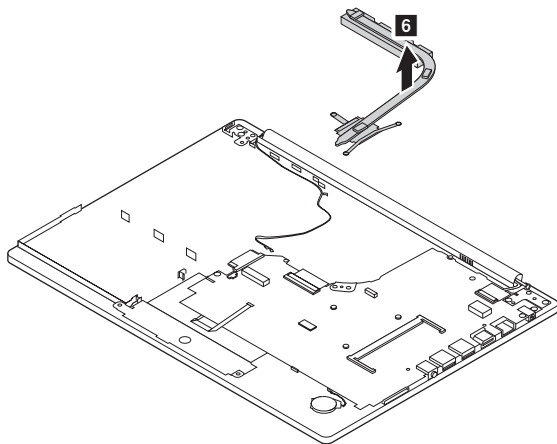
Figure 8. Removal steps of fan assembly and Heat Sink assembly (continued)

Lift the heat sink in the direction shown by arrows **6**.

ideapad 330-15AST



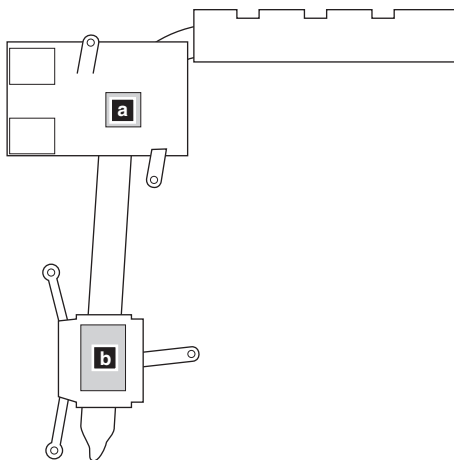
ideapad 330-14AST



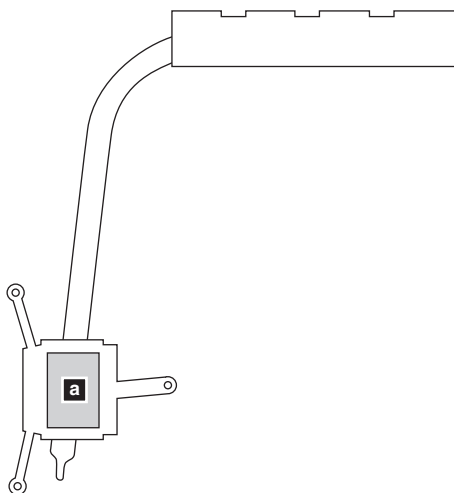
Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 8. Removal steps of fan assembly and Heat Sink assembly (continued)

ideapad 330-15AST



ideapad 330-14AST



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** or **a** 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.

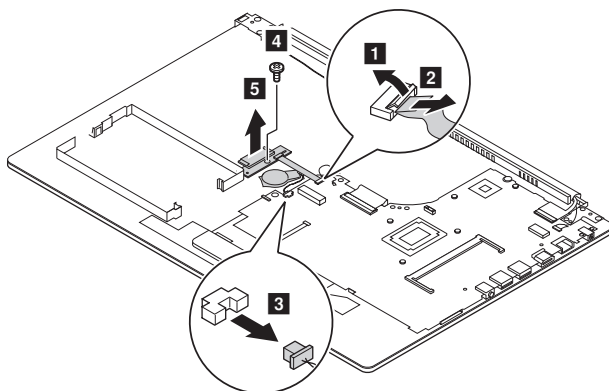
1090 ODD transfer board, backup battery

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48
- “1080 Fan assembly and Heat Sink assembly” on page 49

Figure 9. Removal steps of ODD transfer board, backup battery

Detach the system board connector in the directions shown by arrows **1** and **2**.
Unplug the backup battery connector in the direction shown by arrow **3**.
Remove the screw **4**. Remove the ODD transfer board in the direction shown by arrow **5**.



Step	Screw (quantity)	Color	Torque
4	M2 × 3 mm, Phillips-head, nylok-coated (1)	Silver	1.85+/-0.15 kgf/cm

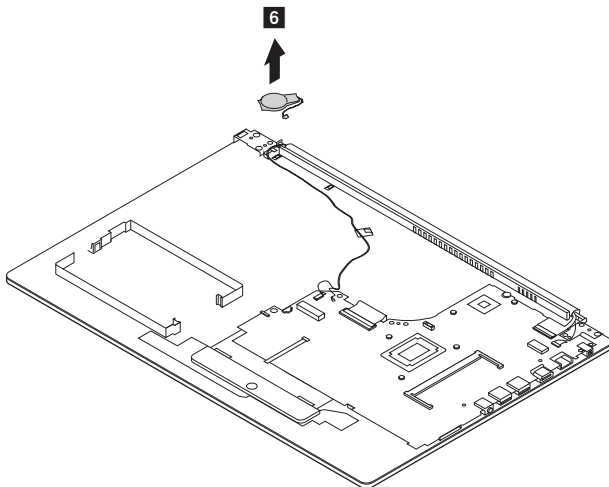
When installing: Make sure that the connectors are attached firmly.

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

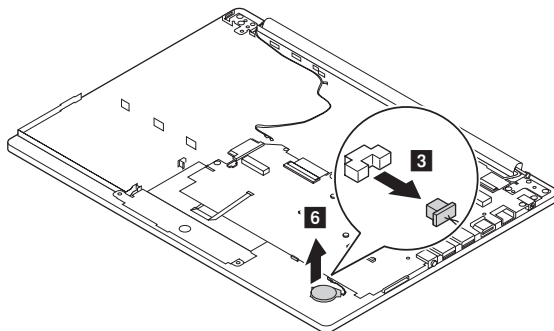
Figure 9. Removal steps of ODD transfer board, backup battery (continued)

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

ideapad 330-15AST



ideapad 330-14AST



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

1100 Upper case

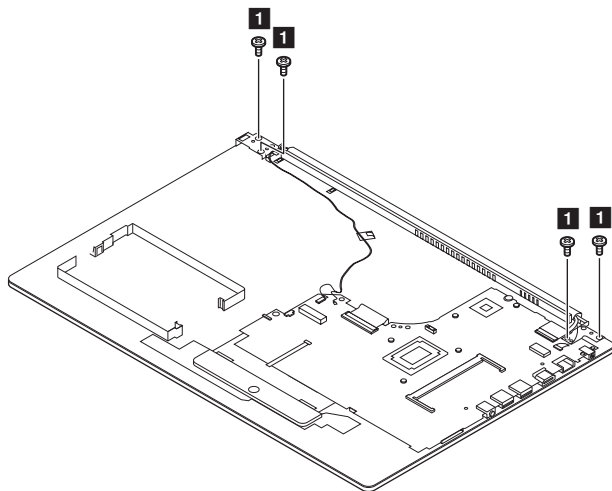
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48
- “1080 Fan assembly and Heat Sink assembly” on page 49
- “1090 ODD transfer board, backup battery” on page 54

Figure 10. Removal steps of upper case

Remove the screws ■.

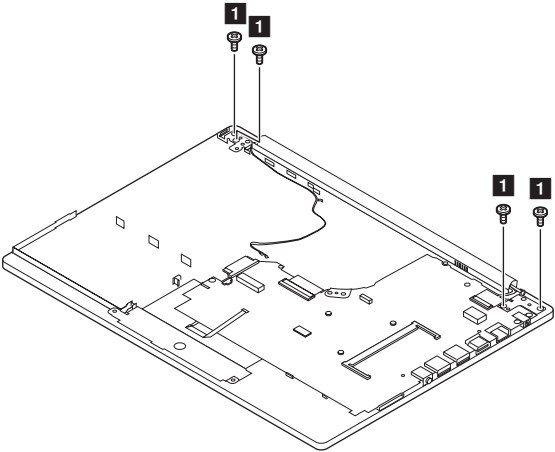
ideapad 330-15AST



Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 10. Removal steps of upper case (continued)

ideapad 330-14AST

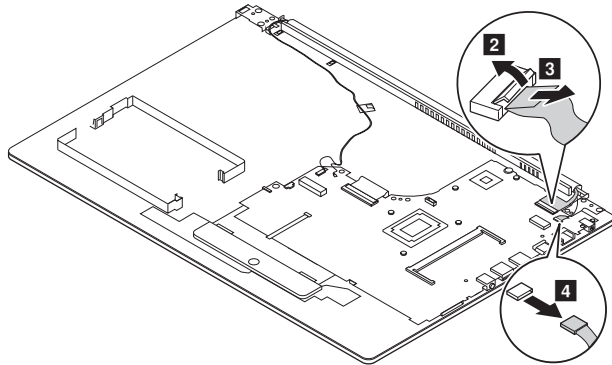


Step	Screw (quantity)	Color	Torque
■	M2.5 × 5 mm, Phillips-head, nylok-coated (4) left side hinge---log up & right side hinge---log up	Black	3 +/-0.3 kgf/cm

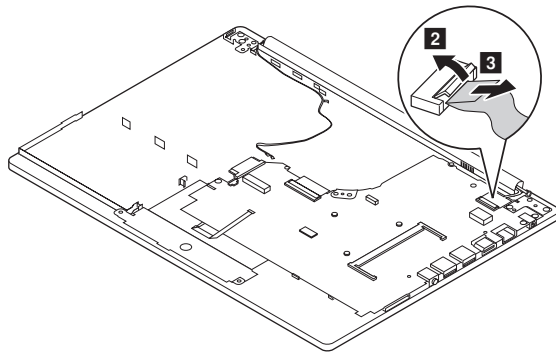
Figure 10. Removal steps of upper case (continued)

Detach the LCD unit connectors in the directions shown by arrows **2** to **4**.

ideapad 330-15AST



ideapad 330-14AST

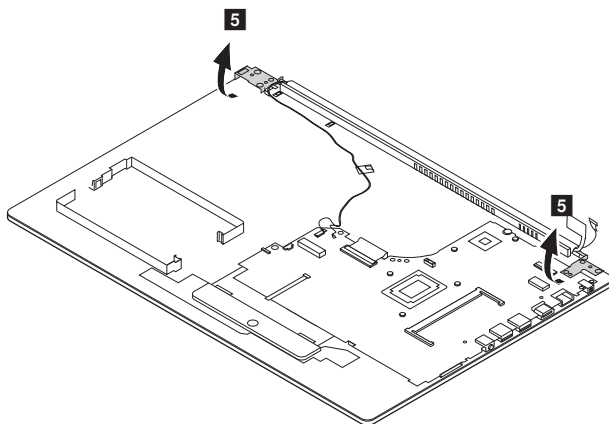


Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 10. Removal steps of upper case (continued)

Open the hinge in the direction shown by arrows **5**.

ideapad 330-15AST



ideapad 330-14AST

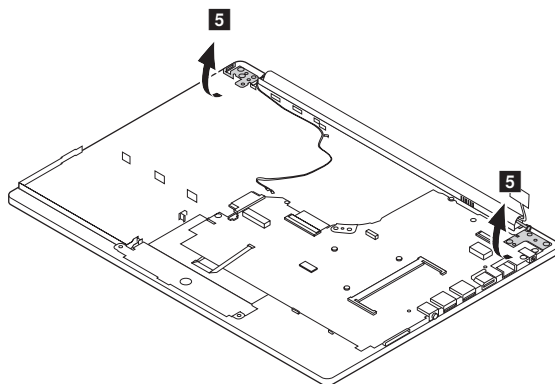
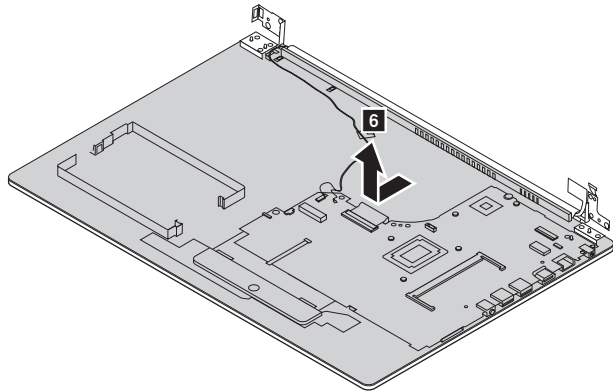


Figure 10. Removal steps of upper case (continued)

Remove the upper case from the LCD module in the directions shown by arrow **6**.



Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

1110 System board

Important notices for handling the system board:

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

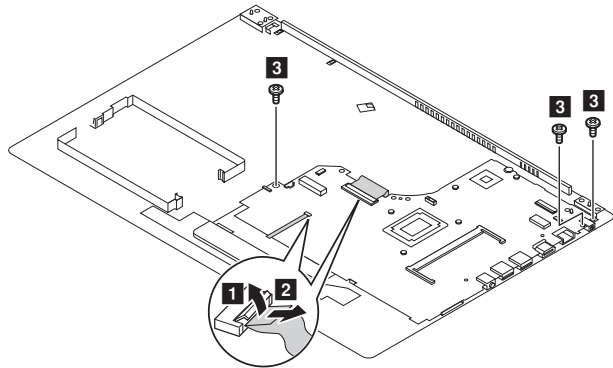
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- During the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded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

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48
- “1080 Fan assembly and Heat Sink assembly” on page 49
- “1090 ODD transfer board, backup battery” on page 54
- “1100 Upper case” on page 56

Figure 11. Removal steps of system board

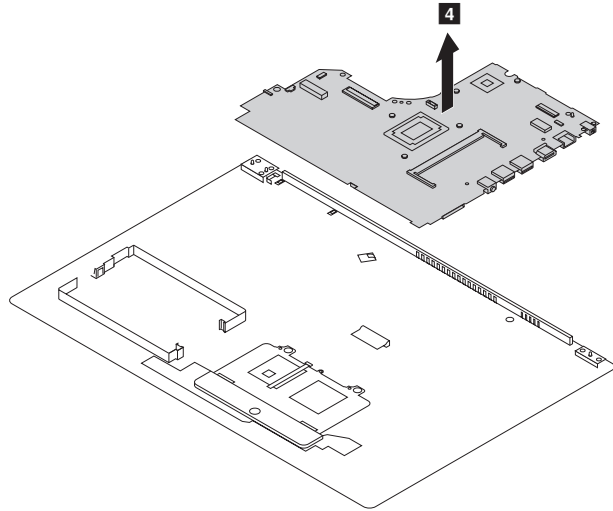
Disconnect the connectors in the directions shown by arrows **1** and **2**. Then remove the screws **3**.



Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, Phillips-head, nylok-coated (3) M/B---log up	Silver	1.85+/-0.15 kgf/cm

Figure 11. Removal steps of system board (continued)

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



*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

1120 LCD unit

For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48
- “1080 Fan assembly and Heat Sink assembly” on page 49
- “1090 ODD transfer board, backup battery” on page 54
- “1100 Upper case” on page 56
- “1110 System board” on page 61

Figure 12. Removal steps of LCD unit

Pull the hinge cap to the right side to release the hooks.

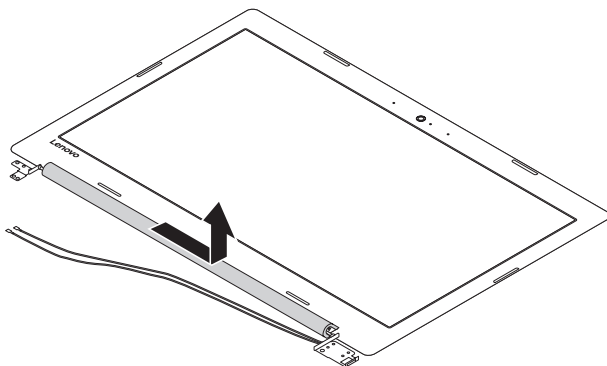
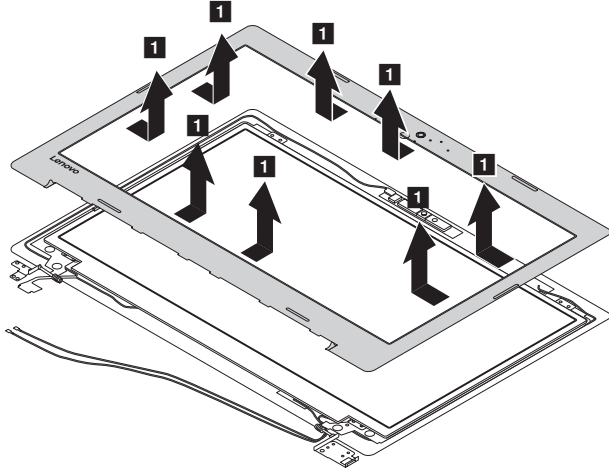
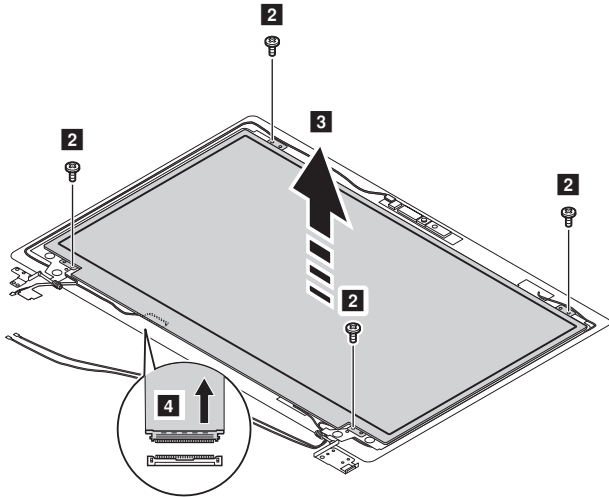


Figure 12. Removal steps of LCD unit (continued)

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



Remove the screws **2**. Lift the LCD module slightly **3**. Disconnect the connector in the direction shown by arrow **4**. Then remove the LCD module.

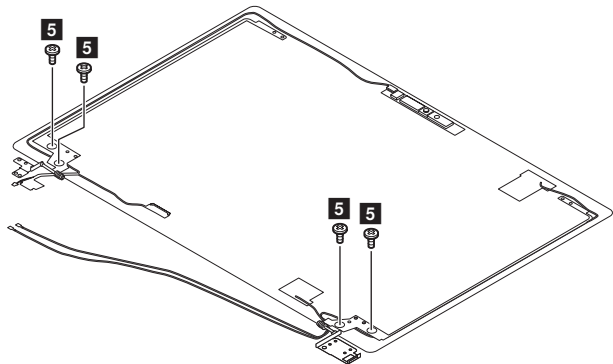


Step	Screw (quantity)	Color	Torque
2	M2 × 3 mm, Phillips-head, nylok-coated (4) lcd panel—lcd cover	Silver	1.85+/-0.15 kgf/cm

Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Figure 12. Removal steps of LCD unit (continued)

Remove the screws **5**.



Step	Screw (quantity)	Color	Torque
5	M2.5 × 2.5 mm, Phillips-head, nylok-coated (4) lcd brk---lcd cover	Silver	3+/-0.3 kgf/cm

Remove the LCD hinges in the direction shown by arrows **6**.

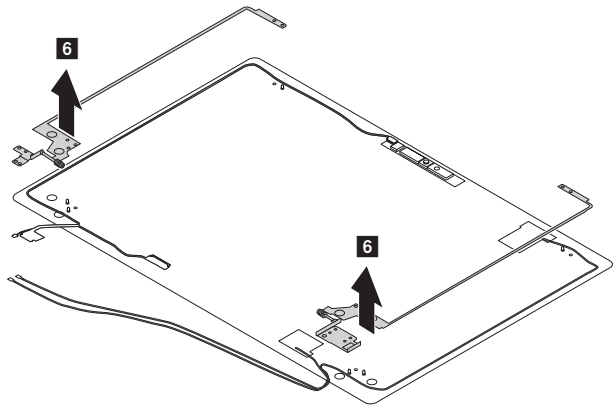
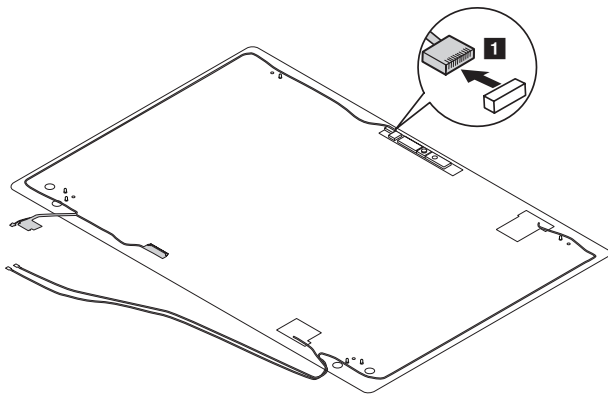
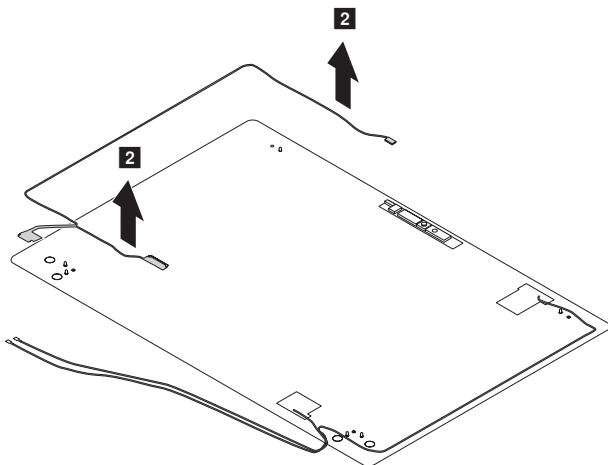


Figure 12. Removal steps of LCD unit (continued)

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



Remove the LCD cable in the direction shown by arrows **2**.



When installing: Make sure that the connector is attached firmly and that you do not pinch the antenna cables when you attach the LCD assembly. Route the LCD cable along the cable guides.

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

1130 Integrated camera and antenna assembly

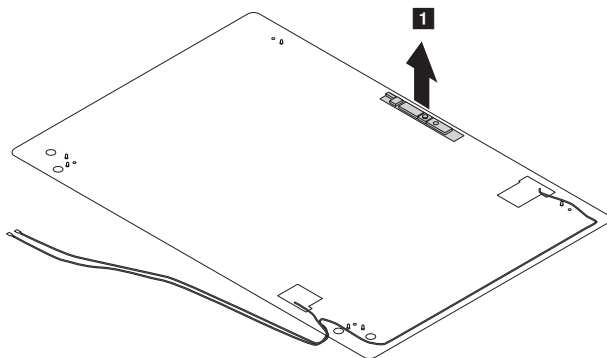
For access, remove these FRUs in order:

- “1010 Optical drive” on page 33
- “1020 Base cover” on page 34
- “1030 Battery pack” on page 40
- “1040 PCI Express Mini Card for wireless LAN” on page 42
- “1050 DIMM” on page 44
- “1060 Hard disk drive” on page 46
- “1070 Speakers” on page 48
- “1080 Fan assembly and Heat Sink assembly” on page 49
- “1090 ODD transfer board, backup battery” on page 54
- “1100 Upper case” on page 56
- “1110 System board” on page 61
- “1120 LCD unit” on page 63

Figure 13. Removal steps of integrated camera and antenna assembly

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

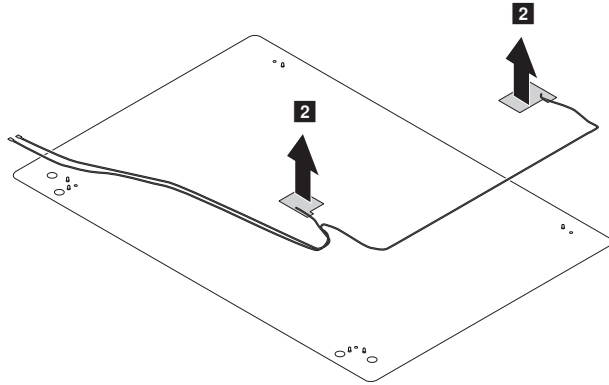
Remove the integrated camera in the direction shown by arrow ■.



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.

Figure 13. Removal steps of integrated camera and antenna assembly (continued)

Peel off the adhesive tape securing the antenna boards, release the cables from the cable guide, and then remove the antenna assembly in the direction shown by arrows **2**.

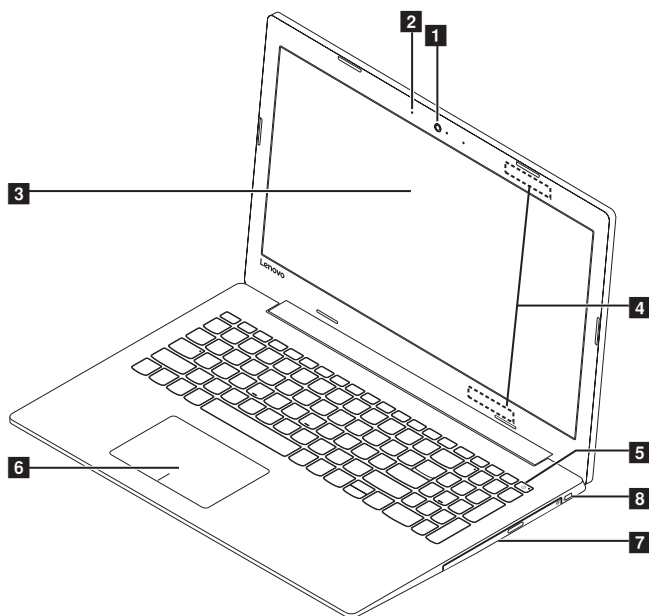


Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Locations

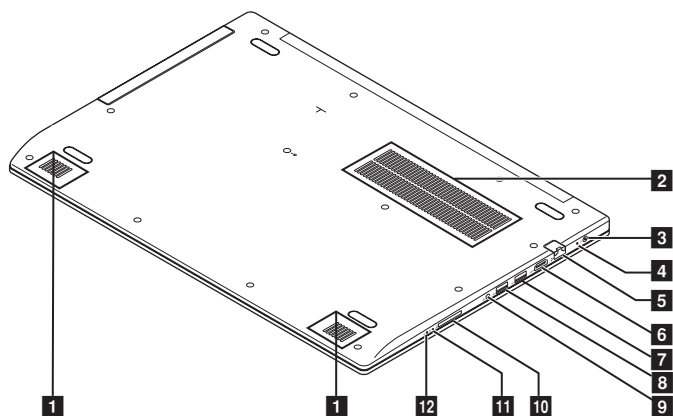
Front view and right-side view

- Integrated camera
- 2 Built-in microphone
- 3 Computer display
- 4 Wireless LAN antennas
- 5 Power Key
- 6 Touch pad
- 7 Optical disc drive
- 8 Kensington Security slot



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 USB 2.0 port
- 9 Combo audio jack
- 10 Memory card slot
- 11 Novo button
- 12 Power status indicator



Parts list

This section presents the following service parts:

- “Overall” on page 72
- “LCD FRUs” on page 83
- “Miscellaneous parts” on page 86
- “AC adapters” on page 87
- “Screws” on page 88

Note:

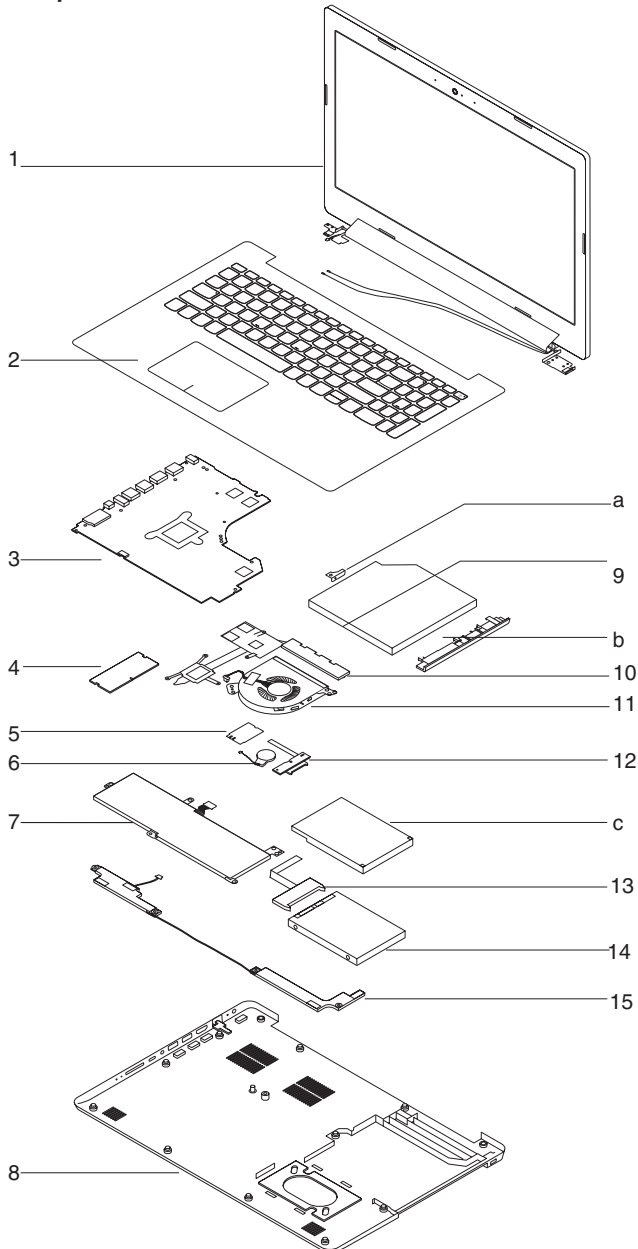
Each FRU is available for all types or models, unless specific types or models are specified.

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 330-15AST



Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST

Table 4. Parts list—Overall

No.	FRU	FRU no.	CRU ID.
a-c	See "Miscellaneous parts" on page 86.		
1	LCD unit (see "LCD FRUs" on page 83).		
2	UpCaseASM W/KB L81DC WH ENG	5CB0R16732	N
2	UpCaseASM W/KB L81DC WH GRE	5CB0R16693	
2	UpCaseASM W/KB L81DC WH EURO ENG	5CB0R16547	
2	UpCaseASM W/KB L81DC WH KOR	5CB0R16637	
2	UpCaseASM W/KB L81DC WH TC	5CB0R16530	
2	UpCaseASM W/KB L81DC WH RUS	5CB0R16529	
2	UpCaseASM W/KB L81DC WH ARA	5CB0R16543	
2	UpCaseASM W/KB L81DC WH HBW	5CB0R16629	
2	UpCaseASM W/KB L81DC WH THAI	5CB0R16643	
2	UpCaseASM W/KB L81DC WH HIN	5CB0R16606	
2	UpCaseASM W/KB L81DC WH UKE	5CB0R16581	
2	UpCaseASM W/KB L81DC WH ITA	5CB0R16687	
2	UpCaseASM W/KB L81DC WH SPA	5CB0R16657	
2	UpCaseASM W/KB L81DC WH TUR	5CB0R16634	
2	UpCaseASM W/KB L81DC WH POR	5CB0R16616	
2	UpCaseASM W/KB L81DC WH LA SPA	5CB0R16591	
2	UpCaseASM W/KB L81DC WH FRA/ENG	5CB0R16667	
2	UpCaseASM W/KB L81DC WH NORDIC	5CB0R16588	
2	UpCaseASM W/KB L81DC WH FRA	5CB0R16648	
2	UpCaseASM W/KB L81DC WH GER	5CB0R16574	
2	UpCaseASM W/KB L81DC WH HUN	5CB0R16516	
2	UpCaseASM W/KB L81DC WH BEL	5CB0R16676	
2	UpCaseASM W/KB L81DC WH ILD	5CB0R16617	
2	UpCaseASM W/KB L81DC WH SLV	5CB0R16652	
2	UpCaseASM W/KB L81DC WH SWS	5CB0R16706	
2	UpCaseASM W/KB L81DC WH BUL	5CB0R16626	
2	UpCaseASM W/KB L81DC WH CZE/SLK	5CB0R16660	
2	UpCaseASM W/KB L81DC WH BRL	5CB0R16712	
2	UpCaseASM W/KB L81DC WH FRA/ARA	5CB0R16718	
2	UpCaseASM W/KB L81DC WH JPN	5CB0R16669	
2	UpCaseASM W/KB L81DC WH UKR	5CB0R16710	
2	UpCaseASM W/KB L81DC PG ENG	5CB0R16703	
2	UpCaseASM W/KB L81DC PG GRE	5CB0R16644	
2	UpCaseASM W/KB L81DC PG EURO ENG	5CB0R16651	
2	UpCaseASM W/KB L81DC PG KOR	5CB0R16690	
2	UpCaseASM W/KB L81DC PG TC	5CB0R16518	
2	UpCaseASM W/KB L81DC PG RUS	5CB0R16655	
2	UpCaseASM W/KB L81DC PG ARA	5CB0R16531	
2	UpCaseASM W/KB L81DC PG HBW	5CB0R16665	
2	UpCaseASM W/KB L81DC PG THAI	5CB0R16609	
2	UpCaseASM W/KB L81DC PG HIN	5CB0R16556	
2	UpCaseASM W/KB L81DC PG UKE	5CB0R16565	
2	UpCaseASM W/KB L81DC PG ITA	5CB0R16513	
2	UpCaseASM W/KB L81DC PG SPA	5CB0R16661	
2	UpCaseASM W/KB L81DC PG TUR	5CB0R16631	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaseASM W/KB L81DC PG POR	5CB0R16662	N
2	UpCaseASM W/KB L81DC PG LA SPA	5CB0R16659	
2	UpCaseASM W/KB L81DC PG FRA/ENG	5CB0R16550	
2	UpCaseASM W/KB L81DC PG NORDIC	5CB0R16679	
2	UpCaseASM W/KB L81DC PG FRA	5CB0R16645	
2	UpCaseASM W/KB L81DC PG GER	5CB0R16524	
2	UpCaseASM W/KB L81DC PG HUN	5CB0R16507	
2	UpCaseASM W/KB L81DC PG BEL	5CB0R16576	
2	UpCaseASM W/KB L81DC PG ILD	5CB0R16555	
2	UpCaseASM W/KB L81DC PG SLV	5CB0R16649	
2	UpCaseASM W/KB L81DC PG SWS	5CB0R16578	
2	UpCaseASM W/KB L81DC PG BUL	5CB0R16520	
2	UpCaseASM W/KB L81DC PG CZE/SLK	5CB0R16674	
2	UpCaseASM W/KB L81DC PG BRL	5CB0R16523	
2	UpCaseASM W/KB L81DC PG FRA/ARA	5CB0R16575	
2	UpCaseASM W/KB L81DC PG JPN	5CB0R16642	
2	UpCaseASM W/KB L81DC PG UKR	5CB0R16595	
2	UpCaseASM W/KB L81DC IG ENG	5CB0R16726	
2	UpCaseASM W/KB L81DC IG GRE	5CB0R16722	
2	UpCaseASM W/KB L81DC IG EURO ENG	5CB0R16716	
2	UpCaseASM W/KB L81DC IG KOR	5CB0R16567	
2	UpCaseASM W/KB L81DC IG TC	5CB0R16704	
2	UpCaseASM W/KB L81DC IG RUS	5CB0R16685	
2	UpCaseASM W/KB L81DC IG ARA	5CB0R16590	
2	UpCaseASM W/KB L81DC IG HBW	5CB0R16545	
2	UpCaseASM W/KB L81DC IG THAI	5CB0R16713	
2	UpCaseASM W/KB L81DC IG HIN	5CB0R16535	
2	UpCaseASM W/KB L81DC IG UKE	5CB0R16723	
2	UpCaseASM W/KB L81DC IG ITA	5CB0R16677	
2	UpCaseASM W/KB L81DC IG SPA	5CB0R16509	
2	UpCaseASM W/KB L81DC IG TUR	5CB0R16670	
2	UpCaseASM W/KB L81DC IG POR	5CB0R16627	
2	UpCaseASM W/KB L81DC IG LA SPA	5CB0R16600	
2	UpCaseASM W/KB L81DC IG FRA/ENG	5CB0R16587	
2	UpCaseASM W/KB L81DC IG NORDIC	5CB0R16697	
2	UpCaseASM W/KB L81DC IG FRA	5CB0R16729	
2	UpCaseASM W/KB L81DC IG GER	5CB0R16692	
2	UpCaseASM W/KB L81DC IG HUN	5CB0R16678	
2	UpCaseASM W/KB L81DC IG BEL	5CB0R16582	
2	UpCaseASM W/KB L81DC IG ILD	5CB0R16512	
2	UpCaseASM W/KB L81DC IG SLV	5CB0R16709	
2	UpCaseASM W/KB L81DC IG SWS	5CB0R16623	
2	UpCaseASM W/KB L81DC IG BUL	5CB0R16734	
2	UpCaseASM W/KB L81DC IG CZE/SLK	5CB0R16658	
2	UpCaseASM W/KB L81DC IG BRL	5CB0R16510	
2	UpCaseASM W/KB L81DC IG FRA/ARA	5CB0R16624	
2	UpCaseASM W/KB L81DC IG JPN	5CB0R16541	

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*
Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaseASM W/KB L81DC IG UKR	5CB0R16639	N
2	UpCaseASM W/KB L81DC LBU ENG	5CB0R16728	
2	UpCaseASM W/KB L81DC LBU GRE	5CB0R16688	
2	UpCaseASM W/KB L81DC LBU EUROENG	5CB0R16646	
2	UpCaseASM W/KB L81DC LBU KOR	5CB0R16618	
2	UpCaseASM W/KB L81DC LBU TC	5CB0R16694	
2	UpCaseASM W/KB L81DC LBU RUS	5CB0R16620	
2	UpCaseASM W/KB L81DC LBU ARA	5CB0R16612	
2	UpCaseASM W/KB L81DC LBU HBW	5CB0R16721	
2	UpCaseASM W/KB L81DC LBU THAI	5CB0R16607	
2	UpCaseASM W/KB L81DC LBU HIN	5CB0R16700	
2	UpCaseASM W/KB L81DC LBU UKE	5CB0R16539	
2	UpCaseASM W/KB L81DC LBU ITA	5CB0R16511	
2	UpCaseASM W/KB L81DC LBU SPA	5CB0R16563	
2	UpCaseASM W/KB L81DC LBU TUR	5CB0R16701	
2	UpCaseASM W/KB L81DC LBU POR	5CB0R16635	
2	UpCaseASM W/KB L81DC LBU LA SPA	5CB0R16597	
2	UpCaseASM W/KB L81DC LBU FRA/ENG	5CB0R16672	
2	UpCaseASM W/KB L81DC LBU NORDIC	5CB0R16640	
2	UpCaseASM W/KB L81DC LBU FRA	5CB0R16717	
2	UpCaseASM W/KB L81DC LBU GER	5CB0R16656	
2	UpCaseASM W/KB L81DC LBU HUN	5CB0R16653	
2	UpCaseASM W/KB L81DC LBU BEL	5CB0R16727	
2	UpCaseASM W/KB L81DC LBU ILD	5CB0R16564	
2	UpCaseASM W/KB L81DC LBU SLV	5CB0R16628	
2	UpCaseASM W/KB L81DC LBU SWS	5CB0R16619	
2	UpCaseASM W/KB L81DC LBU BUL	5CB0R16577	
2	UpCaseASM W/KB L81DC LBU CZE/SLK	5CB0R16534	
2	UpCaseASM W/KB L81DC LBU BRL	5CB0R16569	
2	UpCaseASM W/KB L81DC LBU FRA/ARA	5CB0R16593	
2	UpCaseASM W/KB L81DC LBU JPN	5CB0R16521	
2	UpCaseASM W/KB L81DC LBU UKR	5CB0R16615	
2	UpCaseASM W/KB L81DC CHCO ENG	5CB0R16696	
2	UpCaseASM W/KB L81DC CHCO GRE	5CB0R16614	
2	UpCaseASM W/KB L81DC CHCO EUROENG	5CB0R16705	
2	UpCaseASM W/KB L81DC CHCO KOR	5CB0R16537	
2	UpCaseASM W/KB L81DC CHCO TC	5CB0R16604	
2	UpCaseASM W/KB L81DC CHCO RUS	5CB0R16560	
2	UpCaseASM W/KB L81DC CHCO ARA	5CB0R16558	
2	UpCaseASM W/KB L81DC CHCO HBW	5CB0R16647	
2	UpCaseASM W/KB L81DC CHCO THAI	5CB0R16605	
2	UpCaseASM W/KB L81DC CHCO HIN	5CB0R16514	
2	UpCaseASM W/KB L81DC CHCO UKE	5CB0R16711	
2	UpCaseASM W/KB L81DC CHCO ITA	5CB0R16601	
2	UpCaseASM W/KB L81DC CHCO SPA	5CB0R16622	
2	UpCaseASM W/KB L81DC CHCO TUR	5CB0R16504	
2	UpCaseASM W/KB L81DC CHCO POR	5CB0R16668	

Table 4. Parts list—Overall (continued)

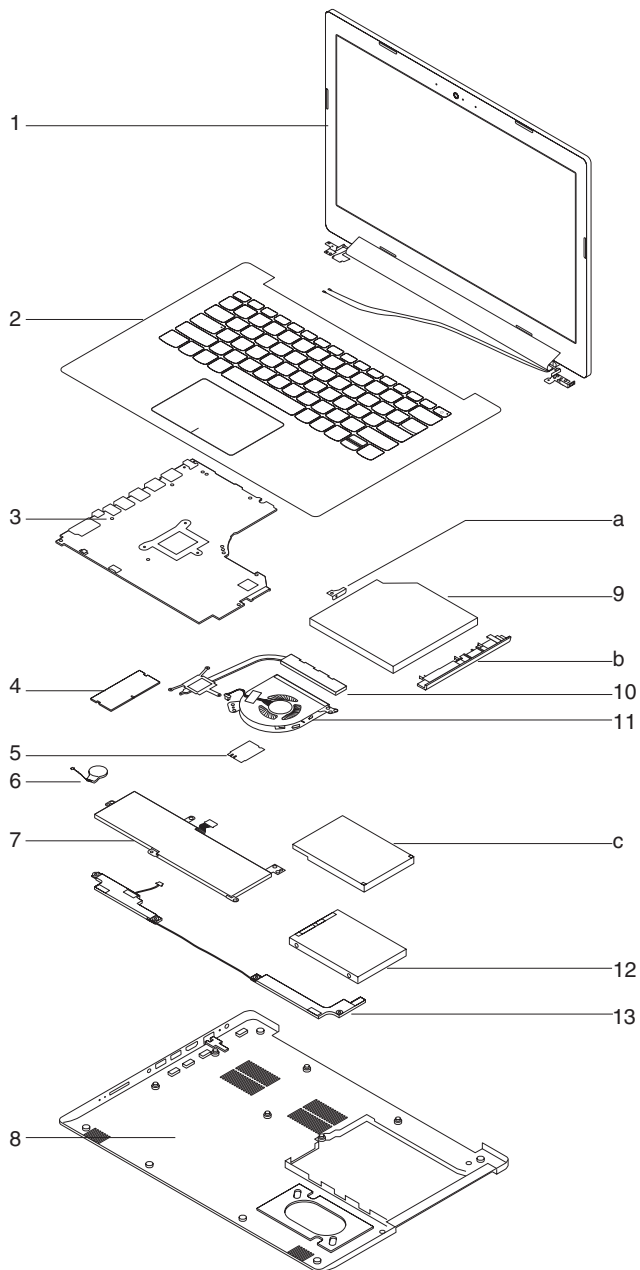
No.	FRU	FRU no.	CRU ID.
2	UpCaseASM W/KB L81DC CHCO LA SPA	5CB0R16519	N
2	UpCaseASM W/KB L81DC CHCO FRA/ENG	5CB0R16625	
2	UpCaseASM W/KB L81DC CHCO NORDIC	5CB0R16570	
2	UpCaseASM W/KB L81DC CHCO FRA	5CB0R16666	
2	UpCaseASM W/KB L81DC CHCO GER	5CB0R16546	
2	UpCaseASM W/KB L81DC CHCO HUN	5CB0R16675	
2	UpCaseASM W/KB L81DC CHCO BEL	5CB0R16561	
2	UpCaseASM W/KB L81DC CHCO ILD	5CB0R16633	
2	UpCaseASM W/KB L81DC CHCO SLV	5CB0R16551	
2	UpCaseASM W/KB L81DC CHCO SWS	5CB0R16583	
2	UpCaseASM W/KB L81DC CHCO BUL	5CB0R16572	
2	UpCaseASM W/KB L81DC CHCO CZE/SLK	5CB0R16538	
2	UpCaseASM W/KB L81DC CHCO BRL	5CB0R16720	
2	UpCaseASM W/KB L81DC CHCO FRA/ARA	5CB0R16557	
2	UpCaseASM W/KB L81DC CHCO JPN	5CB0R16632	
2	UpCaseASM W/KB L81DC CHCO UKR	5CB0R16542	
3	MBL81D6 E29000 UMA WIN	5B20R33835	
3	MBL81D6 E29000 UMA NOK	5B20R33831	
3	MBL81D6 A49125 UMA WIN	5B20R33845	
3	MBL81D6 A49125 UMA NOK	5B20R33842	
3	MBL81D6 A69225 UMA WIN	5B20R33833	
3	MBL81D6 A69225 UMA NOK	5B20R33832	
3	MBL81D6 A99425 UMA WIN	5B20R33846	
3	MBL81D6 A99425 UMA NOK	5B20R33840	
3	MBL81D6 E29000 RADEON530_2G WIN	5B20R33841	
3	MBL81D6 E29000 RADEON530_2G NOK	5B20R33836	
3	MBL81D6 A69225 RADEON530_2G WIN	5B20R33844	
3	MBL81D6 A69225 RADEON530_2G NOK	5B20R33834	
3	MBL81D6 A99425 RADEON530_2G WIN	5B20R33843	
3	MBL81D6 A99425 RADEON530_2G NOK	5B20R33839	
3	MBL81D6 A49125 RADEON530_2G WIN	5B20R33838	
3	MBL81D6 A49125 RADEON530_2G NOK	5B20R33837	
4	4GB DDR4 26S M471A5244CB0-CTD	SM30N76487	
4	4GB D4 26S HMA851S6CJR6N-VKN0	SM30K25310	
4	4GB D4 26S MTA4ATF51264HZ-2G6E1	SM30K25318	
4	4GB D4 26S RMSA3270ME86H9F-2666	SM30K25316	
4	8GB DDR4 26S M471A1K43CB1-CTD	SM30N76488	
4	8GB D4 26S HMA81GS6CJR8N-VKN0	SM30K25311	
4	8GB D4 26S MTA8ATF1G64HZ-2G6E1	SM30N76493	
4	8GB D4 26S RMSA3260ME78HAF-2666	SM30N76498	
5	RTL8821CE 1x1AC+BT4.2 Combo M.2 BS	SW10K97462	
5	Ltn NFA435A 1x1AC+BT PCIE M.2 WLAN	SW10K97461	
6	RTC BATTERY L80XK	5B10N82213	
7	320 SP/A L16M2PB1 7.5V30Wh2cell bty	5B10M86148	
7	320 SP/B L17M2PB7 7.56V30Wh2cell bty	5B10Q71253	
7	320 CP/C L16C2PB2 7.6V30Wh2cell bty	5B10M88058	
7	330G LG L17L2PF1 7.56V30Wh2cell bty	5B10Q41213	

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
7	320 SP/A L16M2PB2 7.5V35Wh2cell bty	5B10M86149	N
7	320 CP/C L16C2PB1 7.6V35Wh2cell bty	5B10M88059	
7	320 SY L16S2PB1 7.6V35Wh2cell bty	5B10M90490	
7	320 LG L16L2PB3 7.6V35Wh2cell bty	5B10M91443	
8	Lower Case L80XR WHITE TEX	5CB0P20656	
8	LOWER CASE 81D1 GRAPHITE GREY	5CB0R33799	
8	LOWER CASE 81D1 LIGHT BLUE	5CB0R33798	
8	LOWER CASE 81D1 LIGHT CHOCOLATE	5CB0R33800	
9	DUMMY ODD 81DA PG	5M20R13432	
9	DUMMY ODD WH L80XK	5M20N82196	
9	DUMMY ODD L81DC MN BU	5M20R16682	
9	DUMMY ODD L81DC CHOC	5M20R16715	
9	DUMMYODDFor2ndHDD 81DA PG	5M20R13443	
9	DUMMYODDFor2ndHDD L81DC MN BU	5M20R16522	
9	DUMMYODDFor2ndHDD L81DC CHOC	5M20R16515	
9	DUMMYODD for 2nd HDD WH L80XK	5M20N82228	
10	THERMAL MODULE UMA L80XU	5H40P19168	
10	THERMAL MODULE DIS L80XU	5H40P19165	
11	FAN DC5V L80XK	5F10N82225	
12	ODD BOARD W/FFC L80XV	5C50P19437	
13	HDD BOARD FOR 2ND HDD L80U7	5C50L67280	
14	Seagate ST500LM030 500GB 2.5" SATA 7mm 5400rpm HDD	SH20P18518	
14	MQ01ABF050 6G 7mm 5.4K 500G HDD	5H20L34560	
14	WD5000LPCX-24VHAT0 7mm 5400rpm 500G HDD	5H20J35762	
14	Seagate ST1000LM035 1T 2.5" 7mm 5400rpm HDD	5H20L22184	
14	WD WD10SPZX-24Z10T0 1TB 2.5" SATA 7mm 5400rpm HDD for ideapad	SH20P18627	
14	Toshiba MQ04ABF100 1TB 2.5" SATA 7mm 5400rpm HDD	SHD0P03171 (ASM:SH20M75978)	
14	ST Rosewood2D 7mm 2TB HDD	5H20M37521	
15	SPEAKERINT L80XL L+R FOR 15T	5SB0P38019	

ideapad 330-14AST



*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

Table 5. Parts list—Overall

ideapad 330-14AST

No.	FRU	FRU no.	CRU ID.
a-c	See "Miscellaneous parts" on page 86.		
1	LCD unit (see "LCD FRUs" on page 83).		
2	UpCaseASM W/KB L81DA PG ENG	5CB0R13833	N
2	UpCaseASM W/KB L81DA PG GRE	5CB0R13894	
2	UpCaseASM W/KB L81DA PG EURO ENG	5CB0R13847	
2	UpCaseASM W/KB L81DA PG KOR	5CB0R13855	
2	UpCaseASM W/KB L81DA PG TC	5CB0R13848	
2	UpCaseASM W/KB L81DA PG RUS	5CB0R13896	
2	UpCaseASM W/KB L81DA PG ARA	5CB0R13876	
2	UpCaseASM W/KB L81DA PG HBW	5CB0R13863	
2	UpCaseASM W/KB L81DA PG THAI	5CB0R13880	
2	UpCaseASM W/KB L81DA PG HIN	5CB0R13867	
2	UpCaseASM W/KB L81DA PG UKE	5CB0R13827	
2	UpCaseASM W/KB L81DA PG ITA	5CB0R13842	
2	UpCaseASM W/KB L81DA PG SPA	5CB0R13830	
2	UpCaseASM W/KB L81DA PG TUR	5CB0R13818	
2	UpCaseASM W/KB L81DA PG POR	5CB0R13895	
2	UpCaseASM W/KB L81DA PG LA SPA	5CB0R13824	
2	UpCaseASM W/KB L81DA PG FRA/ENG	5CB0R13860	
2	UpCaseASM W/KB L81DA PG NORDIC	5CB0R13816	
2	UpCaseASM W/KB L81DA PG FRA	5CB0R13899	
2	UpCaseASM W/KB L81DA PG GER	5CB0R13828	
2	UpCaseASM W/KB L81DA PG HUN	5CB0R13850	
2	UpCaseASM W/KB L81DA PG BEL	5CB0R13897	
2	UpCaseASM W/KB L81DA PG ILD	5CB0R13889	
2	UpCaseASM W/KB L81DA PG SLV	5CB0R13892	
2	UpCaseASM W/KB L81DA PG SWS	5CB0R13886	
2	UpCaseASM W/KB L81DA PG BUL	5CB0R13865	
2	UpCaseASM W/KB L81DA PG CZE/SLK	5CB0R13837	
2	UpCaseASM W/KB L81DA PG BRL	5CB0R13857	
2	UpCaseASM W/KB L81DA PG FRA/ARA	5CB0R13901	
2	UpCaseASM W/KB L81DA PG UKR	5CB0R13888	
2	UpCaseASM W/KB L81DA MG ENG	5CB0R13819	
2	UpCaseASM W/KB L81DA MG GRE	5CB0R13904	
2	UpCaseASM W/KB L81DA MG EURO ENG	5CB0R13852	
2	UpCaseASM W/KB L81DA MG KOR	5CB0R13874	
2	UpCaseASM W/KB L81DA MG TC	5CB0R13831	
2	UpCaseASM W/KB L81DA MG RUS	5CB0R13878	
2	UpCaseASM W/KB L81DA MG ARA	5CB0R13835	
2	UpCaseASM W/KB L81DA MG HBW	5CB0R13849	
2	UpCaseASM W/KB L81DA MG THAI	5CB0R13836	
2	UpCaseASM W/KB L81DA MG HIN	5CB0R13829	
2	UpCaseASM W/KB L81DA MG UKE	5CB0R13838	
2	UpCaseASM W/KB L81DA MG ITA	5CB0R13817	
2	UpCaseASM W/KB L81DA MG SPA	5CB0R13851	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaseASM W/KB L81DA MG TUR	5CB0R13822	N
2	UpCaseASM W/KB L81DA MG POR	5CB0R13882	
2	UpCaseASM W/KB L81DA MG LA SPA	5CB0R13823	
2	UpCaseASM W/KB L81DA MG FRA/ENG	5CB0R13825	
2	UpCaseASM W/KB L81DA MG NORDIC	5CB0R13813	
2	UpCaseASM W/KB L81DA MG FRA	5CB0R13872	
2	UpCaseASM W/KB L81DA MG GER	5CB0R13890	
2	UpCaseASM W/KB L81DA MG HUN	5CB0R13856	
2	UpCaseASM W/KB L81DA MG BEL	5CB0R13843	
2	UpCaseASM W/KB L81DA MG ILD	5CB0R13866	
2	UpCaseASM W/KB L81DA MG SLV	5CB0R13845	
2	UpCaseASM W/KB L81DA MG SWS	5CB0R13858	
2	UpCaseASM W/KB L81DA MG BUL	5CB0R13875	
2	UpCaseASM W/KB L81DA MG CZE/SLK	5CB0R13861	
2	UpCaseASM W/KB L81DA MG BRL	5CB0R13859	
2	UpCaseASM W/KB L81DA MG FRA/ARA	5CB0R13820	
2	UpCaseASM W/KB L81DA MG UKR	5CB0R13839	
2	UpCaseASM W/KB L81DA LBU ENG	5CB0R13873	
2	UpCaseASM W/KB L81DA LBU GRE	5CB0R13900	
2	UpCaseASM W/KB L81DA LBU EUROENG	5CB0R13891	
2	UpCaseASM W/KB L81DA LBU KOR	5CB0R13868	
2	UpCaseASM W/KB L81DA LBU TC	5CB0R13893	
2	UpCaseASM W/KB L81DA LBU RUS	5CB0R13834	
2	UpCaseASM W/KB L81DA LBU ARA	5CB0R13870	
2	UpCaseASM W/KB L81DA LBU HBW	5CB0R13905	
2	UpCaseASM W/KB L81DA LBU THAI	5CB0R13862	
2	UpCaseASM W/KB L81DA LBU HIN	5CB0R13877	
2	UpCaseASM W/KB L81DA LBU UKE	5CB0R13871	
2	UpCaseASM W/KB L81DA LBU ITA	5CB0R13815	
2	UpCaseASM W/KB L81DA LBU SPA	5CB0R13840	
2	UpCaseASM W/KB L81DA LBU TUR	5CB0R13821	
2	UpCaseASM W/KB L81DA LBU POR	5CB0R13885	
2	UpCaseASM W/KB L81DA LBU LA SPA	5CB0R13826	
2	UpCaseASM W/KB L81DA LBU FRA/ENG	5CB0R13846	
2	UpCaseASM W/KB L81DA LBU NORDIC	5CB0R13903	
2	UpCaseASM W/KB L81DA LBU FRA	5CB0R13841	
2	UpCaseASM W/KB L81DA LBU GER	5CB0R13844	
2	UpCaseASM W/KB L81DA LBU HUN	5CB0R13869	
2	UpCaseASM W/KB L81DA LBU BEL	5CB0R13884	
2	UpCaseASM W/KB L81DA LBU ILD	5CB0R13864	
2	UpCaseASM W/KB L81DA LBU SLV	5CB0R13887	
2	UpCaseASM W/KB L81DA LBU SWS	5CB0R13853	
2	UpCaseASM W/KB L81DA LBU BUL	5CB0R13854	
2	UpCaseASM W/KB L81DA LBU CZE/SLK	5CB0R13814	
2	UpCaseASM W/KB L81DA LBU BRL	5CB0R13883	
2	UpCaseASM W/KB L81DA LBU FRA/ARA	5CB0R13879	
2	UpCaseASM W/KB L81DA LBU UKR	5CB0R13898	

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*
Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpCaseASM W/KB L81D0 IG ENG	5CB0R40359	N
2	UpCaseASM W/KB L81D0 IG UKE	5CB0R40366	
2	UpCaseASM W/KB L81D0 IG ITA	5CB0R40343	
2	UpCaseASM W/KB L81D0 IG SPA	5CB0R40367	
2	UpCaseASM W/KB L81D0 IG TUR	5CB0R40369	
2	UpCaseASM W/KB L81D0 IG THAI	5CB0R40344	
2	UpCaseASM W/KB L81D0 IG POR	5CB0R40371	
2	UpCaseASM W/KB L81D0 IG LASPA	5CB0R40345	
2	UpCaseASM W/KB L81D0 IG FRA/ENG	5CB0R40354	
2	UpCaseASM W/KB L81D0 IG KOR	5CB0R40347	
2	UpCaseASM W/KB L81D0 IG TC	5CB0R40357	
2	UpCaseASM W/KB L81D0 IG RUS	5CB0R40358	
2	UpCaseASM W/KB L81D0 IG FRA	5CB0R40353	
2	UpCaseASM W/KB L81D0 IG GER	5CB0R40348	
2	UpCaseASM W/KB L81D0 IG ARA	5CB0R40373	
2	UpCaseASM W/KB L81D0 IG BRL	5CB0R40361	
2	UpCaseASM W/KB L81D0 IG GRE	5CB0R40363	
2	UpCaseASM W/KB L81D0 IG HBW	5CB0R40351	
2	UpCaseASM W/KB L81D0 IG HUN	5CB0R40364	
2	UpCaseASM W/KB L81D0 IG NORDIC	5CB0R40362	
2	UpCaseASM W/KB L81D0 IG BEL	5CB0R40349	
2	UpCaseASM W/KB L81D0 IG ILD	5CB0R40360	
2	UpCaseASM W/KB L81D0 IG SLV	5CB0R40356	
2	UpCaseASM W/KB L81D0 IG SWS	5CB0R40365	
2	UpCaseASM W/KB L81D0 IG EUROENG	5CB0R40355	
2	UpCaseASM W/KB L81D0 IG CZE/SLK	5CB0R40372	
2	UpCaseASM W/KB L81D0 IG BUL	5CB0R40352	
2	UpCaseASM W/KB L81D0 IG HIN	5CB0R40370	
2	UpCaseASM W/KB L81D0 IG FRA/ARA	5CB0R40368	
2	UpCaseASM W/KB L81D0 IG UKR	5CB0R40346	
3	MBL81D5 E29000 UMA WIN	5B20R33824	
3	MBL81D5 E29000 UMA NOK	5B20R33820	
3	MBL81D5 A69225 UMA WIN	5B20R33828	
3	MBL81D5 A69225 UMA NOK	5B20R33829	
3	MBL81D5 A49125 UMA WIN	5B20R33821	
3	MBL81D5 A49125 UMA NOK	5B20R33819	
3	MBL81D5 A99425 UMA WIN	5B20R33825	
3	MBL81D5 A99425 UMA NOK	5B20R33827	
3	MBL81D5 E29000 RADEON530_2G WIN	5B20R33815	
3	MBL81D5 E29000 RADEON530_2G NOK	5B20R33826	
3	MBL81D5 A69225 RADEON530_2G WIN	5B20R33818	
3	MBL81D5 A69225 RADEON530_2G NOK	5B20R33817	
3	MBL81D5 A99425 RADEON530_2G WIN	5B20R33816	
3	MBL81D5 A99425 RADEON530_2G NOK	5B20R33830	
3	MBL81D5 A49125 RADEON530_2G WIN	5B20R33822	
3	MBL81D5 A49125 RADEON530_2G NOK	5B20R33823	
4	4GB DDR4 26S M471A5244CB0-CTD	SM30N76487	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
4	4GB D4 26S HMA851S6CJR6N-VKN0	SM30K25310	
4	4GB D4 26S MTA4ATF51264HZ-2G6E1	SM30K25318	
4	4GB D4 26S RMSA3270ME86H9F-2666	SM30K25316	N
4	8GB DDR4 26S M471A1K43CB1-CTD	SM30N76488	
4	8GB D4 26S HMA81GS6CJR8N-VKN0	SM30K25311	
4	8GB D4 26S MTA8ATF1G64HZ-2G6E1	SM30N76493	
4	8GB D4 26S RMSA3260ME78HAF-2666	SM30N76498	
5	RTL8821CE 1x1AC+BT4.2 Combo M.2 BS	SW10K97462	
5	Ltn NFA435A 1x1AC+BT PCIE M.2 WLAN	SW10K97461	
6	RTC BATTERY L80XK	5B10N82213	
7	320 SP/A L16M2PB1 7.5V30Wh2cell bty	5B10M86148	
7	320 SP/B L17M2PB7 7.56V30Wh2cell bty	5B10Q71253	
7	320 CP/C L16C2PB2 7.6V30Wh2cell bty	5B10M88058	
7	330G LG L17L2PF1 7.56V30Wh2cell bty	5B10Q41213	
7	320 SP/A L16M2PB2 7.5V35Wh2cell bty	5B10M86149	
7	320 CP/C L16C2PB1 7.6V35Wh2cell bty	5B10M88059	
7	320 SY L16S2PB1 7.6V35Wh2cell bty	5B10M90490	
7	320 LG L16L2PB3 7.6V35Wh2cell bty	5B10M91443	
8	LOWER CASE 81D0 GRAPHITE GREY	5CB0R33587	
8	LOWER CASE 81D0 LIGHT MINT GREEN	5CB0R33586	
8	LOWER CASE 81D0 LIGHT BLUE	5CB0R33588	
9	HLDS GUE0N 9.0mm Slim Tray Rambo ODD	5DX0J46488	
9	HLDS GUE1N 9.0mm Rambo ODD SSDV 8/E, sample ready in Sep.	SDX0K84177	
9	PLDS DA-8AESH 9.0 mm Slim Tray Rambo ODD	5DX0L08424	
9	DUMMY ODD 81DA PG	5M20R13432	
9	DUMMY ODD 81DA MG	5M20R13428	
9	DUMMY ODD 81DA MN-BU	5M20R13442	
10	THERMAL MODULE UMA L80XU	5H40P19168	
10	THERMAL MODULE DIS L80XU	5H40P19165	
11	FAN DC5V L80XK	5F10N82225	
12	Seagate ST500LM030 500GB 2.5" SATA 7mm 5400rpm HDD	SH20P18518	
12	MQ01ABF050 6G 7mm 5.4K 500G HDD	5H20L34560	
12	WD5000LPCX-24VHAT0 7mm 5400rpm 500G HDD	5H20J35762	
12	Seagate ST1000LM035 1T 2.5" 7mm 5400rpm HDD	5H20L22184	
12	WD WD10SPZX-24Z10T0 1TB 2.5" SATA 7mm 5400rpm HDD for ideapad	SH20P18627	
12	Toshiba MQ04ABF100 1TB 2.5" SATA 7mm 5400rpm HDD	SHD0P03171 (ASM:SH20M75978)	
12	ST Rosewood2D 7mm 2TB HDD	5H20M37521	
13	SPEAKERINT L80XK L+R FOR 14T	5SB0P38021	

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

LCD FRUs

In Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST, there are following types of LCD.

- “14-in. HD LED”
- “15.6-in. HD LED”

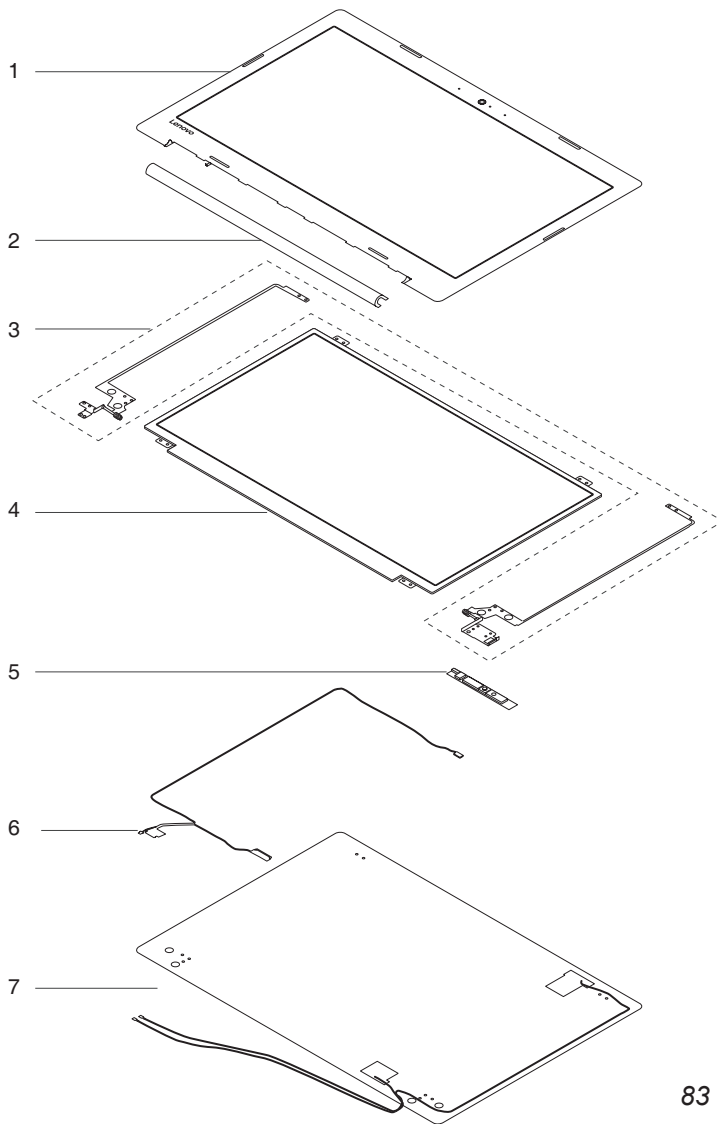


Table 6. Parts list—LCD FRUs

ideapad 330-15AST

No.	FRU	FRU no.	CRU ID.
1	LCDBUEZELL80XLTEX15TBKWCAMMYMAGNET	5B30N86341	N
2	HINGECAP15TL80XL BW PT	5CB0N86453	
2	HINGECAP15TL80XL PG PT	5CB0N86380	
2	HINGECAP15TL80XL OB PT	5CB0N86462	
2	HINGE CAP L81DC 15T MN BU	5CB0R16699	
2	HINGE CAP L81DC 15T CHOC	5CB0R16636	
3	HINGE LR 15T L80XL	5H50N86361	
4	AU B156XTN07.1 3A HDT AG S NB	5D10H52713	
4	INX N156BGA-EA2 HDT AG S NB	5D10K81086	
4	BO NT156WHM-N42 V8.1 HDT AG S NB	5D10R26920	
4	AU B156HTN03.8 0C FHDT AG S NB	5D10L08702	
4	IN N156HGA-EAB FHDT AG S NB	5D10K93435	
4	BO NT156FHM-N41 FHDT AG S NB	5D10K93434	
5	CAMERA 81DA 720P W/MIC	5C20R13441	
5	CAMERA L80XK 0.3M W1 MIC	5C20N82280	
6	EDP Cable L80XL FOR 15T	5C10P38020	
7	LCDCOVERL80XL15T BW PTANTE EDP	5CB0N86561	
7	LCDCOVERL80XL15T PG PTANTE EDP	5CB0N86313	
7	LCDCOVERL80XL15T OB PTANTE EDP	5CB0N86327	
7	LCD Cover L81DC 15T MN BU	5CB0R16544	
7	LCD Cover L81DC 15T CHOC	5CB0R16599	

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

Table 7. Parts list—LCD FRUs

ideapad 330-14AST

No.	FRU	FRU no.	CRU ID.
1	LCDBUEZELL80XKTEX14TBKWCAMMYMAGNET	5B30N82311	N
2	HINGECAP14TL80XK PG PT	5CB0N82240	
2	HINGE CAP 81DA 14T MG	5CB0R13435	
2	HINGE CAP 81DA 14T MN-BU	5CB0R13433	
3	HINGECAP14TL80XK OB PT	5CB0N82275	
3	HINGE LR 14T L80XK	5H50N82309	
4	AU B140XTN02.E HWCA HD AG S NB	5D10P54235	
4	INX N140BGA-EA3 C1 HD AG S NB	5D10K85755	
4	IV M140NWR6 R1 HDT AG S NB	5D10K81644	
4	BO NT140WHM-N41 HDT AG S NB	5D10K81099	
4	AU B140HTN01.E 2A FHDT AG S NB	5D10L08701	
4	IN N140HGE-EAA C4 FHDT AG S NB	5D10K93439	
4	BO NT140FHM-N41 FHDT AG S NB	5D10L01874	
5	BIS BNCR1NKSK HD NB camera	SC20M52085	
5	CCY CNFGH41 HD NB camera	SC20M52089	
5	LTN 6SF111N2 HD NB camera	SC20M52114	
5	AVC HAA-8F4A03 HD NB camera	SC20M52087	
5	BIS BNCRVTKTL 0.3M NB camera	SC20M52088	
5	CCY CNFG020 0.3M NB camera	SC20M52082	
5	AWA AM-6SF5A02 0.3M NB camera	SC20M52079	
5	AVC HAA-93C501 0.3M NB camera	SC20M52080	
5	CAMERA 81DA 720P W/MIC	5C20R13441	
5	CAMERA L80XK 0.3M W1 MIC	5C20N82280	
6	EDP Cable L80XK FOR 14T	5C10P38018	
7	LCDCOVERL80XK14T PG PTANTE EDP	5CB0N82367	
7	LCD Cover 81DA 14T MG	5CB0R13430	
7	LCD Cover 81DA 14T MN-BU	5CB0R13434	
7	LCDCOVERL80XK14T OB PTANTE EDP	5CB0N82366	

Miscellaneous parts

Table 8. Parts list—Miscellaneous parts

ideapad 330-15AST

FRU	FRU no.	CRU ID.
System miscellaneous parts:		
• (a) ODD BRACKET L80SL	5B40L35764	N
• (b) ODD BEZEL L80XK WH	5B30N82354	
• (b) ODD Bezel 81DA PG	5B30R13437	
• (b) ODD Bezel L81DC MN BU	5B30R16536	
• (b) ODD Bezel L81DC CHOC	5B30R16580	
• (c) HDD BRACKET L80XK	5B40N82219	
Note: Italicized letters in parentheses are references to the exploded view in "Overall" on page 72.		

Table 9. Parts list—Miscellaneous parts

ideapad 330-14AST

FRU	FRU no.	CRU ID.
System miscellaneous parts:		
• (a) ODD BRACKET L80SL	5B40L35764	N
• (b) ODD Bezel 81DA PG	5B30R13437	
• (b) ODD Bezel 81DA MG	5B30R13431	
• (b) ODD Bezel 81DA MN-BU	5B30R13436	
• (c) HDD BRACKET L80XK	5B40N82219	
Note: Italicized letters in parentheses are references to the exploded view in "Overall" on page 72.		

*Lenovo ideapad 330-14AST/ideapad 330-14AST D/ideapad 330-14AST U/ideapad 330E-14AST D/
ideapad 330E-14AST U/ideapad 330H-14AST/ideapad 330L-14AST/ideapad 330E-14AST/ideapad 330R-14AST/
ideapad 330-15AST/ideapad 330-15AST D/ideapad 330-15AST U/ideapad 330E-15AST D/
ideapad 330E-15AST U/ideapad 330H-15AST/ideapad 330L-15AST/ideapad 330E-15AST/ideapad 330R-15AST*

AC adapters

Table 10. Parts list—AC adapters

FRU	P/N	CRU ID.
Delta ADP-45DW A 20V2.25A COO	SA10M42800	*
Delta ADP-45DW J 20V2.25A COO	SA10M42721	
Delta ADP-45DW B 20V2.25A COO	SA10M42785	
Delta ADP-45DW D 20V2.25A COO	SA10M42696	
Delta ADP-45DW H 20V2.25A COO	SA10M42699	
Delta ADP-45DW G 20V2.25A COO	SA10M42774	
Delta ADP-45DW E 20V2.25A COO	SA10M42748	
Delta ADP-45DW C 20V2.25A COO	SA10M42700	
Delta ADP-45DW K 20V2.25A COO	SA10M42804	
Liteon PA-1450-55LN 20V2.25A COO	SA10M42711	
Liteon PA-1450-55LG 20V2.25A COO	SA10M42709	
Liteon PA-1450-55LL 20V2.25A COO	SA10M42742	
Liteon PA-1450-55LK 20V2.25A COO	SA10M42530	
Liteon PA-1450-55LI 20V2.25A COO	SA10M42734	
Liteon PA-1450-55LR 20V2.25A COO	SA10M42701	
Liteon PA-1450-55LS 20V2.25A COO	SA10M42736	
Liteon PA-1450-55LU 20V2.25A COO	SA10M42743	
Liteon PA-1450-55LZ 20V2.25A COO	SA10M42752	
Chicony ADL45WCA 20V2.25A COO	SA10M42726	
Chicony ADL45WCB 20V2.25A COO	SA10M42737	
Chicony ADL45WCC 20V2.25A COO	SA10M42697	
Chicony ADL45WCD 20V2.25A COO	SA10M42790	
Chicony ADL45WCK 20V2.25A COO	SA10M42768	
Chicony ADL45WCE 20V2.25A COO	SA10M42706	
Chicony ADL45WCF 20V2.25A COO	SA10M42746	
Chicony ADL45WCG 20V2.25A COO	SA10M42792	
Chicony ADL45WCH 20V2.25A COO	SA10M42786	
Delta ADLX65CDGC2A 20V3.25A COO	SA10M42764	
Delta ADLX65CDGG2A 20V3.25A COO	SA10M42758	
Delta ADLX65CDGU2A 20V3.25A COO	SA10M42765	
Delta ADLX65CDGK2A 20V3.25A COO	SA10M42745	
Delta ADLX65CDGI2A 20V3.25A COO	SA10M42796	
Delta ADLX65CDGR2A 20V3.25A COO	SA10M42775	
Delta ADLX65CDGA2A 20V3.25A COO	SA10M42718	
Delta ADLX65CDGE2A 20V3.25A COO	SA10M42794	
Delta ADLX65CDGB2A 20V3.25A COO	SA10M42769	
Liteon ADLX65CLGC2A 20V3.25A COO	SA10M42791	
Liteon ADLX65CLGG2A 20V3.25A COO	SA10M42714	
Liteon ADLX65CLGU2A 20V3.25A COO	SA10M42725	
Liteon ADLX65CLGK2A 20V3.25A COO	SA10M42531	
Liteon ADLX65CLGI2A 20V3.25A COO	SA10M42753	
Liteon ADLX65CLGR2A 20V3.25A COO	SA10M42738	
Liteon ADLX65CLGA2A 20V3.25A COO	SA10M42793	
Liteon ADLX65CLGE2A 20V3.25A COO	SA10M42740	
Liteon ADLX65CLGB2A 20V3.25A COO	SA10M42817	

Table 10. Parts list—AC adapters (continued)

FRU	P/N	CRU ID.
Chicony ADLX65CCG2A 20V3.25A COO	SA10M42805	*
Chicony ADLX65CCG2A 20V3.25A COO	SA10M42815	
Chicony ADLX65CCGU2A 20V3.25A COO	SA10M42762	
Chicony ADLX65CCGK2A 20V3.25A COO	SA10M42735	
Chicony ADLX65CCGI2A 20V3.25A COO	SA10M42751	
Chicony ADLX65CCGR2A 20V3.25A COO	SA10M42704	
Chicony ADLX65CCGA2A 20V3.25A COO	SA10M42766	
Chicony ADLX65CCGE2A 20V3.25A COO	SA10M42760	
Chicony ADLX65CCGB2A 20V3.25A COO	SA10M42707	

Screws

Table 11. Parts list—screws

ideapad 330-15AST

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	

Table 12. Parts list—screws

ideapad 330-14AST

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	
SCREWL80XKMM2.5D7.0LK4.5D0.8T ZKNL	5S10N82242	
Screw L Y700-15ACZ Hinge base	5S10K26861	
ACLU1ScrewD-C/D-KB/ODD-D-MB-KB/FAN	90205118	

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