Lenovo ideapad 520S/320S Hardware Maintenance Manual

Lenovo™

Notes:

- Before using this information and the product it supports, be sure to read the general information under "Notices" on page 80.
- This manual applies to the following models: Lenovo ideapad 320S-14IKB/ Lenovo ideapad 320SH-14IKB/ Lenovo ideapad 320SL-14IKB/ Lenovo ideapad 320SR-14IKB/Lenovo ideapad 320SE-14IKB/ Lenovo ideapad 520S-14IKB/Lenovo ideapad 520SH-14IKB/ Lenovo ideapad 520SL-14IKB/ Lenovo ideapad 520SR-14IKB/ Lenovo ideapad 520SE-14IKB.
  The illustrations used in this manual are for Lenovo ideapad 520S-14IKB unless otherwise stated.

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Contents

About this manual iv

Safety information 1
General safety 2
Electrical safety 3
Safety inspection guide 5
Handling devices that are sensitive to electrostatic discharge 6
Grounding requirements 6
Safety notices: multilingual translations 7
Laser compliance statement 14

Important service information 16
Strategy for replacing FRUs 16
- Strategy for replacing a hard disk drive 17
- Important notice for replacing a system board 17

Important information about replacing RoHS compliant FRUs 18

General checkout 19
What to do first 20
Power system checkout 21
- Checking the AC adapter 21
- Checking operational charging 22
- Checking the battery pack 22

Related service information 23
Restoring the factory contents by using recovery system 23
- Restore of factory default 23

Passwords 24
- Power-on password 24
- Hard-disk password 24
- Administrator password 24

Power management 25
- Putting the computer to sleep or shutting it down 25
- Putting your computer to sleep 25
- Shutting down the computer 25

Lenovo ideapad 520S/320S 26
Specifications 26
Status indicators 28
Fn key combinations/Hotkeys 29
FRU replacement notices 30
- Screw notices 30

Removing and replacing an FRU 31
- 1010 Base cover 32
- 1020 Battery pack 35
- 1030 Solid state disk 36
- 1040 Hard disk drive 37
- 1050 DIMM 39
- 1060 PCI Express Mini Card for wireless LAN 40
- 1070 Fan and heat sink assembly 43
- 1080 IO board 46
- 1090 Speaker 48
- 1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models) 49
- 1110 System board 50
- 1120 Upper case 52
- 1130 DC-in cable 54
- 1140 LCD unit 55
- 1150 LCD hinges 58
- 1160 EDP cable and integrated camera 60

Locations 62
- Front and right-side view 62
- Bottom and left-side view 63

Parts list 64
- Overall 65
- LCD FRUs 75
- Miscellaneous parts 77
- AC adapters 77
- Screws 79

Notices 80
Trademarks 81

About this manual

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

Lenovo ideapad 320S-14IKB/ Lenovo ideapad 320SH-14IKB/ Lenovo ideapad 320SL-14IKB/ Lenovo ideapad 320SR-14IKB/ Lenovo ideapad 320SE-14IKB/ Lenovo ideapad 520S-14IKB/ Lenovo ideapad 520SH-14IKB/ Lenovo ideapad 520SL-14IKB/ Lenovo ideapad 520SR-14IKB/ Lenovo ideapad 520SE-14IKB

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 320S-14IKB/ Lenovo ideapad 320SH-14IKB/Lenovo ideapad 320SL-14IKB/ Lenovo ideapad 320SR-14IKB/Lenovo ideapad 320SE-14IKB/ Lenovo ideapad 520S-14IKB/Lenovo ideapad 520SH-14IKB/ Lenovo ideapad 520SL-14IKB/Lenovo ideapad 520SR-14IKB/ Lenovo ideapad 520SE-14IKB 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 generators

  and similar units. (This practice ensures correct grounding of the units.)
- If an electrical accident occurs:
  - Caution: do not become a victim yourself.
  - Switch off the power.
  - Send the victim to get medical aid.

Safety inspection guide

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

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

Consider these conditions and the safety hazards they present:

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

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

Checklist:

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

Handling devices that are sensitive to electrostatic discharge

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

Notes:

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

When handling ESD-sensitive parts:

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

Note:

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

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

Grounding requirements

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

Safety notices: multilingual translations

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

Safety notice 1

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

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

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

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

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

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

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

Safety notice 2

⚠ DANGER

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

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

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

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

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

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

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

Safety notice 3

⚠ DANGER

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

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

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

מארז הסוללה מכיל כמות קטנה של ניקל
וקדמיום. אין לפרק את מארז הסוללה, להשליך
אותו לאש או למים או לקצר אותו. יש לסלק את
מארז הסוללה הסוללה כנדרש על ידי התקנות
והחוקים המקומיים. יש להשתמש רק בסוללה
המופיעה ברשימת החלקים המתאימה בזמן החלפת
מארז 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 temperature 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, לסלק את המחבר
המקוטב שלה, לפרק אותה או לחמם אותה לטמפרטורה
העולה על 100 מעלות צלזיוס. אין לשרוף את הסוללה ואין
לחשוף את תוכן התא למים. יש לסלק את הסוללה כנדרש
בתקנות ובחוקים המקומיים. יש להשתמש רק בסוללה
המופיעה ברשימת החלקים המתאימים. שימוש בסוללה
אחרת עלול לגרום לסכנת שריפה או התפוצצות.

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

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

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

Safety notice 5

If the LCD breaks and the fluid from inside the LCD gets into your eyes or on your hands, immediately wash the affected areas with water at least for 15 minutes. Seek medical care if any symptoms caused by the fluid are present after washing.

Si le panneau d'affichage à cristaux liquides se brise et que vous recevez dans les yeux ou sur les mains une partie du fluide, rincez-les abondamment pendant au moins quinze minutes. Consultez un médecin si des symptômes persistent après le lavage.

Die Leuchtstoffröhre im LCD-Bildschirm enthält Quecksilber. Bei der Entsorgung die örtlichen Bestimmungen für Sondermüll beachten. Der LCD-Bildschirm besteht aus Glas und kann zerbrechen, wenn er unsachgemäß behandelt wird oder der Computer auf den Boden fällt. Wenn der Bildschirm beschädigt ist und die darin befindliche Flüssigkeit in Kontakt mit Haut und Augen gerät, sollten die betroffenen Stellen mindestens 15 Minuten mit Wasser abgespült und bei Beschwerden anschließend ein Arzt aufgesucht werden.

אם מסך הגביש 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, סוללה
מקוצרת או מוארקת עלולה להפיק זרם מספיק לגרימת
כוויות או להצתת חומרים דליקים.

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

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

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

Safety notice 8

⚠ DANGER

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

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

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

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

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

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

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

Laser compliance statement

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

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

⚠ CAUTION

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

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

凡未在这里指明的任何控制用法、调整、行为，
都会导致严重后果。

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

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

Az itt előírt eljárásoktól, 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 kontrôl, 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，请勿盯视激光光束，请勿直接查看
视觉仪器，并且避免直接接触在激光光束之中。

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

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

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

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

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

Keď je laserová jednotka otvorená. Vyhnite sa priamemu
pohľadu a nehľadte priamo s optickými nástrojmi do ľúča
a vyhnite sa priamemu vystaveniu ľúčov.

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:



Pin	Voltage (V DC)
1	+20
2	0

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

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

- Replace the system board.
- If the problem persists, go to “Lenovo ideapad 520S/320S” on page 26.

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

Checking operational charging

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

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

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

Checking the battery pack

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

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

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

Related service information

This chapter presents the following information:

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

Restoring the factory contents by using recovery system

Restore of factory default

The Lenovo ideapad 320S-14IKB/ Lenovo ideapad 320SH-14IKB/ Lenovo ideapad 320SL-14IKB/ Lenovo ideapad 320SR-14IKB/ Lenovo ideapad 320SE-14IKB/ Lenovo ideapad 520S-14IKB/ Lenovo ideapad 520SH-14IKB/ Lenovo ideapad 520SL-14IKB/ Lenovo ideapad 520SR-14IKB/ Lenovo ideapad 520SE-14IKB computers come with pre-installed recovery system. In order to save application files and the initial backed up files of the system, the hard disk in a Lenovo computer includes a hidden partition when it is shipped. If you need to restore the system to the point of your first boot up, just enter the recovery system. For details of the Recovery system, see *the User Guide for Recovery system*.

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

Passwords

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

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

Power-on password

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

Hard-disk password

There are two hard-disk passwords (HDPs):

+ User HDP - for the user

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

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

Administrator password

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

Power management

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

Putting the computer to sleep or shutting it down

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

Putting your computer to sleep

If you will be away from your computer for only a short time, put the computer to sleep. When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

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

- Close the display lid.
- Press the Power button.
- Open the start menu, and then select **Power** → **Sleep**.

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

To wake the computer, do one of the following:

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

Shutting down the computer

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

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

Lenovo ideapad 520S/320S

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

- "Specifications" on page 26
- "Status indicators" on page 28
- "Fn key combinations/Hotkeys" on page 29
- "FRU replacement notices" on page 30
- "Removing and replacing an FRU" on page 31
- "Locations" on page 62
- "Parts list" on page 64

Specifications

The following table lists the specifications of the
Lenovo ideapad 320S-14IKB/Lenovo ideapad 320SH-14IKB/
Lenovo ideapad 320SL-14IKB/Lenovo ideapad 320SR-14IKB/
Lenovo ideapad 320SE-14IKB/Lenovo ideapad 520S-14IKB/
Lenovo ideapad 520SH-14IKB/Lenovo ideapad 520SL-14IKB/
Lenovo ideapad 520SR-14IKB/Lenovo ideapad 520SE-14IKB:

Table 1. Specifications

Feature	Description
Processor	• View the system properties of your computer. You can do this as follows: Open the **Control Panel**, and then select **System and Security** → **System.**
Bus architecture	• 2133MHz DDR4 • PCIE • SATA • USB • LPC • HDA • EDP • HDMI
Graphic memory chip	• Integrated graphics: GT2 • Discreted graphics: Nvidia N16S-GTR/Nvidia N17S-G1 (Lenovo ideapad 520S) Nvidia N16V-GMR1 (Lenovo ideapad 320S)
Display	• 14.0" 16:9, 1,366 × 768 pixels HD / 1,920 × 1,080 pixels FHD
Standard memory	• DDR4-2133 MHz / 2400 MHz, SODIMM × 1 (max 8 GB + Optane DRAM 16 GB SSD)
CMOS RAM	• Embedded in PCH
Storage devices	• HDD: 2.5-inch, 7.0 mm SATA II/SATA III • SSD: 2.5-inch / 2280, SATA III
I/O port	• USB 2.0 × 1, USB 3.0 × 1 • Combo audio jack × 1 • HDMI port × 1 • Type-C (USB 3.0) × 1 • Memory card slot (SD/SDHC/SDXC/MMC)

Table 1. Specifications (continued)

Feature	Description
Audio	• 3.5 mm Combo audio jack • 2 W speaker × 2 • Single microphone
Bluetooth wireless	• Combined in combo card
Keyboard	• 6 rows Lenovo Keyboard
Integrated camera	• HD/0.3 M
Battery	• Li-ion battery pack, 3 cells / 2 cells, 52.5 Wh / 30 Wh
AC adapter	• 20 V DC
Pre-installed operating system	• Free-DOS for HDD • Windows 10

Status indicators

The system status indicators below show the computer status:



Table 2. Status indicators

Symbol	AC power adapter status	Indicator status	Meaning
1	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.

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

Fn key combinations/Hotkeys

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

Table 3. Fn key combinations

Fn + PrtSc:	Activates the insert function.
Fn + B:	Activates the break function.
Fn + P:	Activates the pause function.
Fn + C:	Enables/disables the scroll lock.
Fn + S:	Activates the system request.
Fn + ↑:	Activates the Pgup key function.
Fn + ↓:	Activates the Pgdn key function.
Fn + ←:	Activates the home key function.
Fn + →:	Activates the end key function.
Fn + Space (Lenovo ideapad 520S-14IKB) (on select models):	Adjusts the keyboard backlight (off → dim → bright → off).

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

Table 4. Hotkeys

F1 :	Mutes/unmutes the sound.	F7 :	Enables/disables Airplane mode.
F2 :	Decreases the volume level.	F8 :	Enables/disables the integrated camera.
F3 :	Increases the volume level.	F9 :	Locks the screen.
F4 :	Enables/disables the microphone.	F10 :	Toggles the display between the computer and an external device.
F5 :	Refreshes the desktop or the currently active window.	F11 :	Decreases the display brightness.
F6 :	Enables/disables the touchpad.	F12 :	Increases the display brightness.

Notes: You can use the Lenovo Setting to enable/disable the hotkey function.

FRU replacement notices

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

Screw notices

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

- They maintain tight connections.
- They do not easily come loose, even with shock or vibration.
- They are harder to tighten.

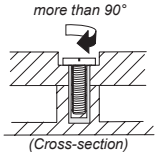
Do the following when you service this machine:

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

Tighten screws as follows:

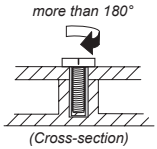
- **Plastic to plastic**

  Turn an additional 90° after the screw head touches the surface of the plastic part:



- **Logic card to plastic**

  Turn an additional 180° after the screw head touches the surface of the logic card:



- **Torque driver**

  If you have a torque screwdriver , refer to the “Torque” column for each step.
- Make sure that you use the correct screws. If you have a torque screwdriver, tighten all screws firmly to the torque shown in the table. **Carefully remove screws for reuse when replacing FRUs. Make sure that all screws are tightened firmly.**
- Ensure torque screwdrivers are calibrated correctly following country specifications.

Removing and replacing an FRU

This section presents exploded figures with the instructions to indicate how to remove and replace the FRU. Make sure to observe the following general rules:

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review “FRU replacement notices” on page 30.
3. Begin by removing any FRUs that have to be removed before the failing FRU. Any of such FRUs are listed at the top of the page. Remove them in the order in which they are listed.
4. Follow the correct sequence in the steps to remove the FRU, as given in the figures by the numbers in square callouts.
5. When turning a screw to replace an FRU, turn it in the direction as given by the arrow in the figure.
6. When removing the FRU, move it in the direction as given by the arrow in the figure.
7. To put the new FRU in place, reverse the removal procedures and follow any of the notes that pertain to replacement. For information about connecting and arranging internal cables, see “Locations” on page 62.
8. When replacing an FRU, use the correct screw as shown in the procedures.

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

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

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

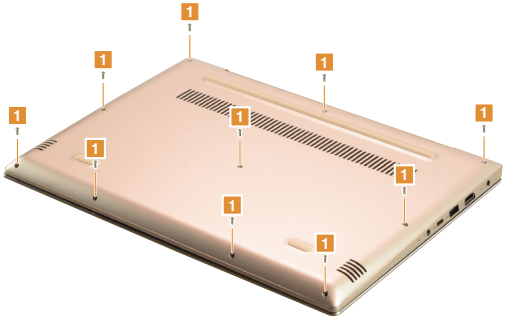
Notes:

- This manual applies to the following models:
  Lenovo ideapad 320S-14IKB/Lenovo ideapad 320SH-14IKB/
  Lenovo ideapad 320SL-14IKB/Lenovo ideapad 320SR-14IKB/
  Lenovo ideapad 320SE-14IKB/Lenovo ideapad 520S-14IKB/
  Lenovo ideapad 520SH-14IKB/Lenovo ideapad 520SL-14IKB/
  Lenovo ideapad 520SR-14IKB/Lenovo ideapad 520SE-14IKB .
- The illustrations used in this manual are for Lenovo ideapad 520S-14IKB unless otherwise stated.

1010 Base cover

Figure 1. Removal steps of base cover

Remove the screws 1 from the bottom.



Step	Screw (quantity)	Color	Torque
1	M2 × 6 mm, Phillips head, nylok-coated (10) log low---left side hinge---log up&log low---right side hinge---log up&log low---mb---log up&log low---hdd bkt---log up&log low---log up	Silver/ Black	1.0~1.5 kgf*cm

Use a plastic prying tool to aid in separation shown by arrows 2, 3, 4 and 5.

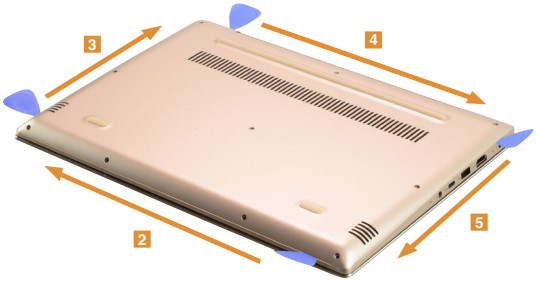
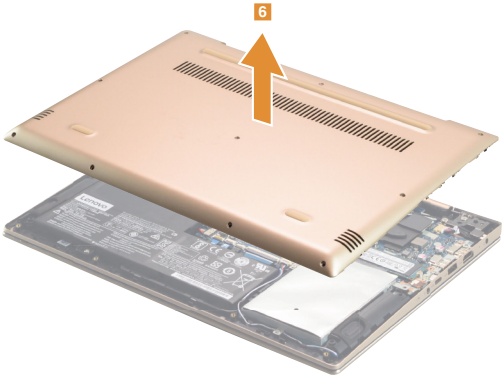


Figure 1. Removal steps of base cover (continued)

Remove the base cover 6.



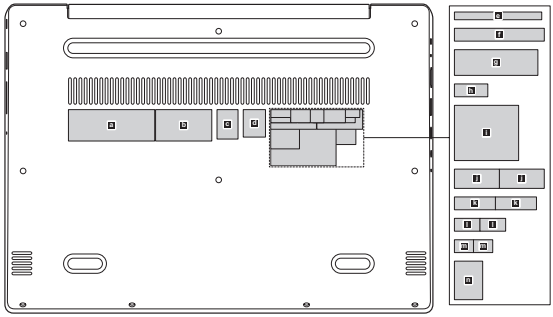
Note: Applying labels to the base cover

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

- a Rating label
- b Rating label
- c GML label
- d Office label
- e Argentina label
- f TW label
- g Adapter label
- h Indonesia rating label
- i KR KCC label
- j Brazil WL/BT label
- k Israel/US/CA/TW WL/BT label
- l SouthAfrica WL/BT label
- m Malaysia/Indonesia WL/BT label
- n India BIS label

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

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



1020 Battery pack

For access, remove this FRU:

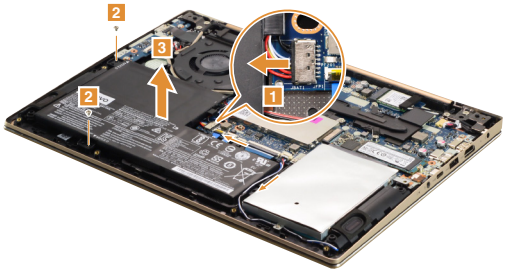
- “1010 Base cover” on page 32

⚠ DANGER

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

Figure 2. Removal steps of battery pack

Detach the battery pack connector in the direction shown by arrow 1, then remove the screws 2. Release the cable from the cable guides. Remove the battery pack in the direction shown by arrow 3.



Step	Screw (quantity)	Color	Torque
2	M2 × 3 mm, Phillips head, nylok-coated (2) battery---log up	Silver	1.0~1.5 kgf*cm

When installing: Make sure that the battery connector is attached firmly and route the cable along the cable guides.

1030 Solid state disk

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35

Figure 3. Removal steps of solid state disk

Remove the screw 1.



Step	Screw (quantity)	Color	Torque
1	M2 × 3 mm, Phillips head, nylok-coated (1) ssd card---mb	Silver	1.0~1.5 kgf*cm

Remove the solid state disk in the direction shown by arrow 2.



1040 Hard disk drive

For access, remove these FRUs in order:

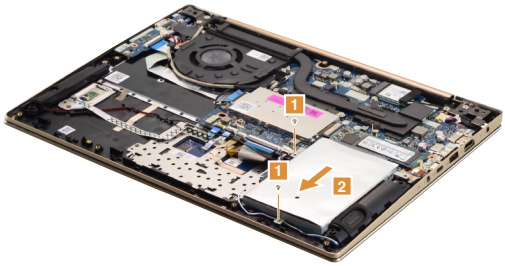
- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35

Attention:

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

Figure 4. Removal steps of hard disk drive

Remove the screws 1, then remove the hard disk drive in the direction shown by arrow 2.



Step	Screw (quantity)	Color	Torque
1	M2 × 3 mm, Phillips head, nylok-coated (2) hdd bracket---log up	Silver	1.0~1.5 kgf*cm

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

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



Step	Screw (quantity)	Color	Torque
3	M3 × 3 mm, Phillips head, nylok-coated (4) hdd bracket---hdd module	Silver	1.5~2.0 kgf*cm

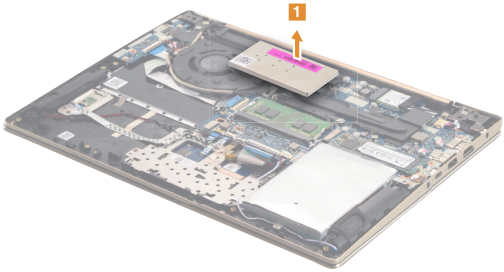
1050 DIMM

For access, remove these FRUs in order:

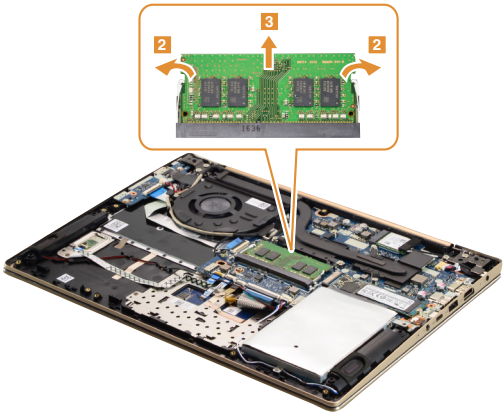
- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35

Figure 5. Removal steps of DIMM

Carefully remove the DIMM EMI shielding 1.



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



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

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

1060 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35

Important: The preinstalled WLAN module may only be replaced with a Lenovo approved module in order to comply with FCC and IC regulations. Refer to “Table 5. Parts list—Overall” on page 66 for Lenovo part numbers for the approved modules.

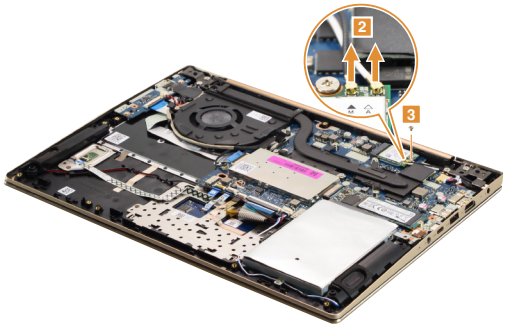
Figure 6. Removal steps of PCI Express Mini Card for wireless LAN

Peel off the sponge on the card 1.



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

Disconnect the two wireless LAN cables (black, white) 2, and then remove the screw 3.



In step 2, 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 2.
The wireless LAN card in some models might have 3 cables in step 2.

Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, Phillips head, nylok-coated (1) wireless card---mb	Silver	1.0~1.5 kgf*cm

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

Remove the card in the direction shown by arrow 4.



When installing:

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

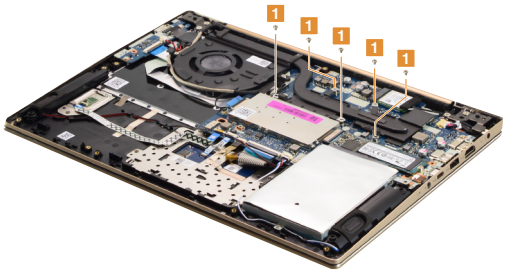
1070 Fan and heat sink assembly

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35

Figure 7. Removal steps of fan and heat sink assembly

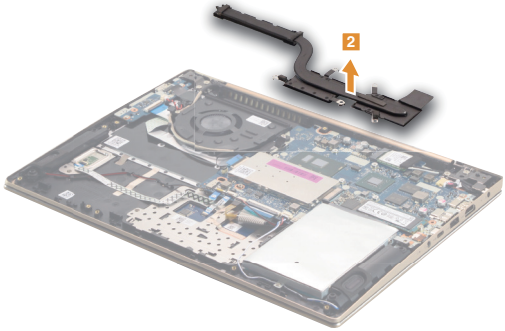
Remove the screws 1.



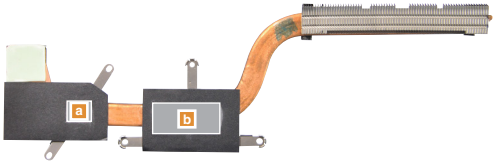
Step	Screw (quantity)	Color	Torque
1	M2 × 3 mm, Phillips head, nylok-coated (5) cpu thermal module---MB & vga thermal module---MB	Silver	1.0~1.5 kgf*cm

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

Lift the heat sink in the direction shown by arrow 2.



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

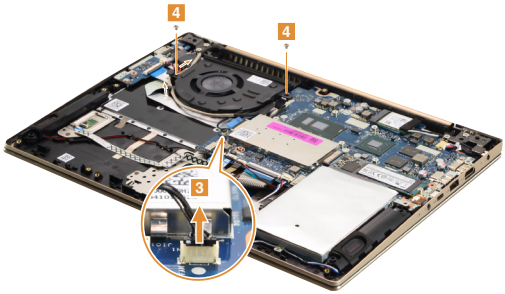


When installing:

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

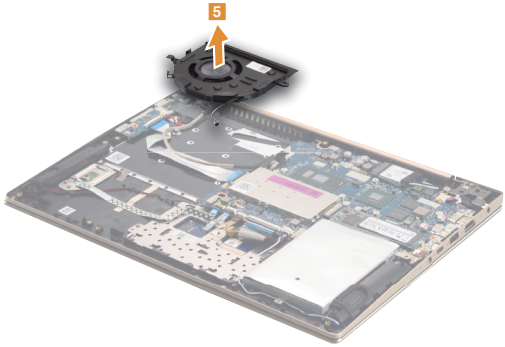
Figure 7. Removal steps of fan and heat sink assembly (continued)

Unplug the fan connector 3. Remove the screws 4. Release the cable from the cable guides.



Step	Screw (quantity)	Color	Torque
4	M2 × 3 mm, Phillips-head, nylok-coated (2) fan---mb---log up & fan---log up	Silver	1.0~1.5 kgf*cm

Lift the fan in the direction shown by arrow 5.



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

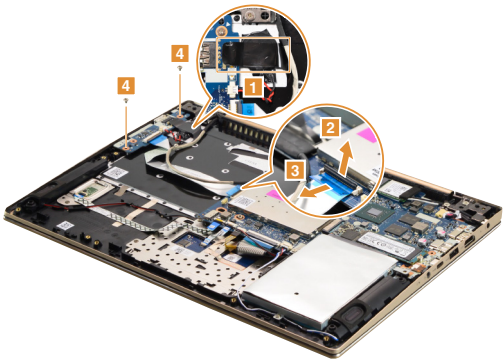
1080 IO board

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1070 Fan and heat sink assembly” on page 43

Figure 8. Removal steps of IO board

Peel off the adhesive tape 1. Detach the IO board connector in the directions shown by arrows 2 and 3. Remove the screws 4.



Step	Screw (quantity)	Color	Torque
4	M2 × 3.5 mm, Phillips head, nylok-coated (2) IO/B---log up	Silver	1.0~1.5 kgf*cm

Remove the IO board 5.

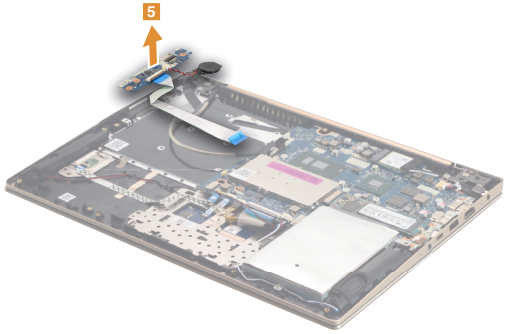
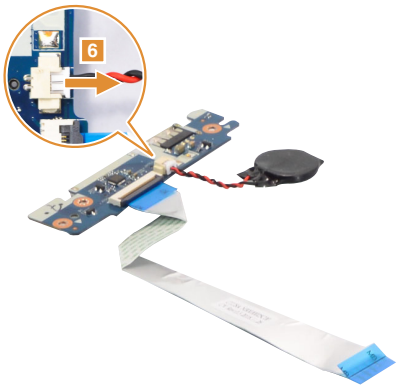


Figure 8. Removal steps of IO board (continued)

Unplug the RTC battery connector in the direction shown by arrow 6.
Remove the RTC battery.



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

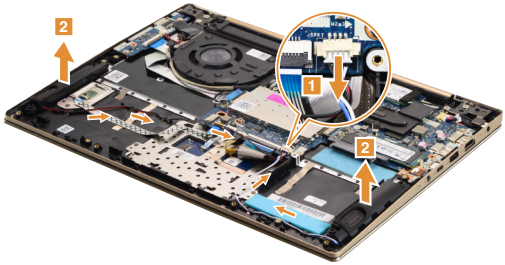
1090 Speaker

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1040 Hard disk drive” on page 37

Figure 9. Removal step of speaker

Unplug the speaker connector in the direction shown by arrow 1. Release the speaker cable from the cable guides. Remove the two speakers 2.



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

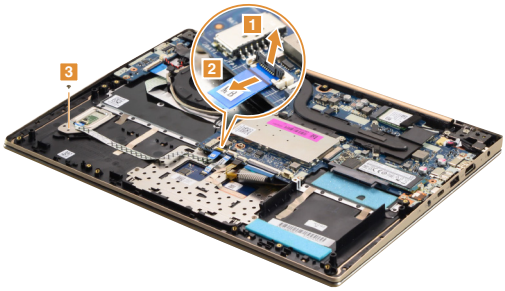
1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1040 Hard disk drive” on page 37
- “1090 Speaker” on page 48

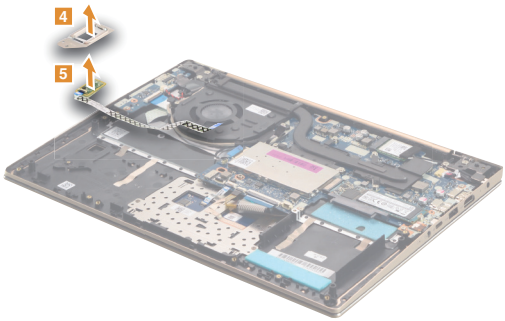
Figure 10. Removal steps of fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)

Disconnect the connector in the directions shown by arrows 1 and 2.
Remove the screw 3.



Step	Screw (quantity)	Color	Torque
3	M1.6 × 2 mm, Phillips head, nylok-coated (1) fp bracket---log up (for FP only)	Black	1.0~1.5 kgf*cm

Remove the fingerprint bracket and fingerprint board in the direction shown by arrows 4 and 5.



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

1110 System board

Important notices for handling the system board:

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

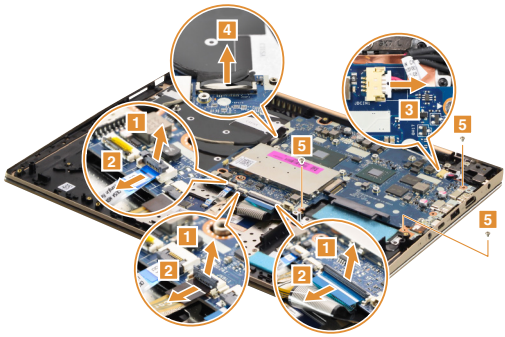
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- In the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded surface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

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49

Figure 11. Removal steps of system board

Detach the five connectors (touchpad connector, KB backlight connector, KB FPC connector, DC-in cable connector and EDP cable connector) in the directions shown by arrows 1, 2, 3 and 4. Remove the screws 5.

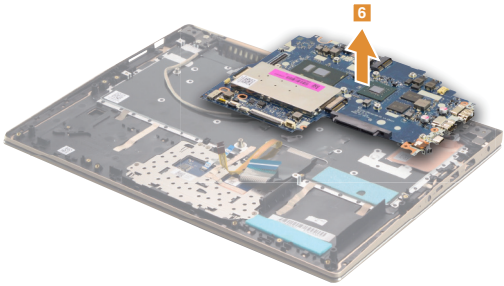


Step	Screw (quantity)	Color	Torque
5	M2 × 3 mm, Phillips head, nylok-coated (3) M/B---log up	Silver	1.0~1.5 kgf*cm

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

Figure 11. Removal steps of system board (continued)

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



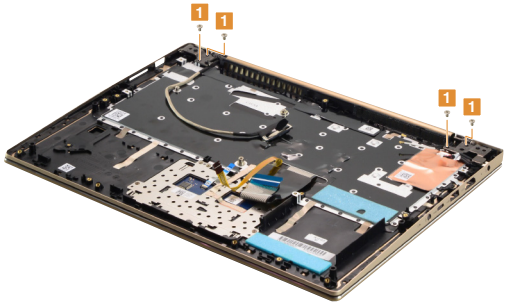
1120 Upper case

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49
- “1110 System board” on page 50

Figure 12. Removal steps of upper case

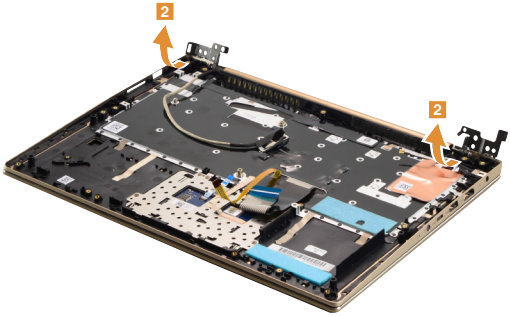
Remove the screws 1.



Step	Screw (quantity)	Color	Torque
2	M2.5 × 4.5 mm, Phillips head, nylok-coated (4) left side hinge---log up&right side hinge---log up	Silver	1.5~2.0 kgf*cm

Figure 12. Removal steps of upper case (continued)

Open the hinge in the direction shown by arrows **2**.



Rotate the upper case in the direction shown by arrow **3**. Then remove the upper case from LCD unit.



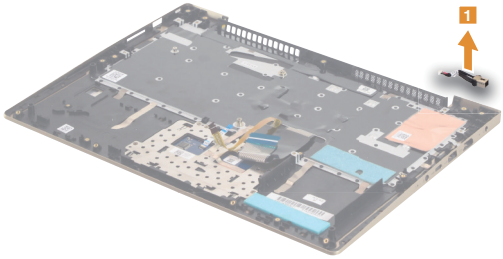
1130 DC-in cable

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49
- “1110 System board” on page 50
- “1120 Upper case” on page 52

Figure 13. Removal steps of DC-in cable

Remove the DC-in cable 1.



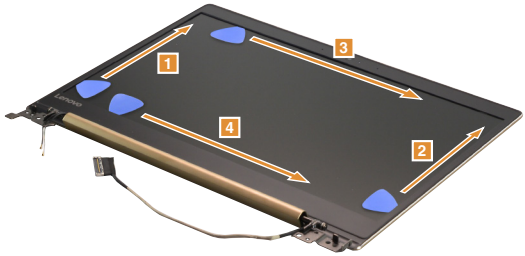
1140 LCD unit

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49
- “1110 System board” on page 50
- “1120 Upper case” on page 52

Figure 14. Removal steps of LCD unit

Use a plastic prying tool to aid in separation shown by arrows 1, 2, 3 and 4.



Remove the LCD front bezel in the direction shown by arrows 5.

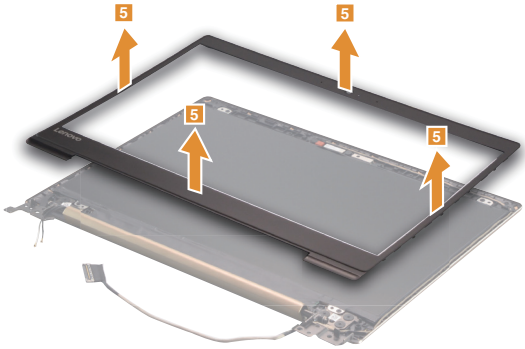
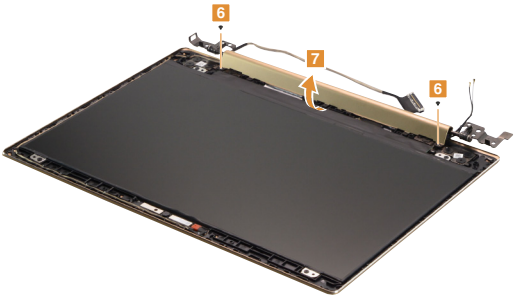


Figure 14. Removal steps of LCD unit (continued)

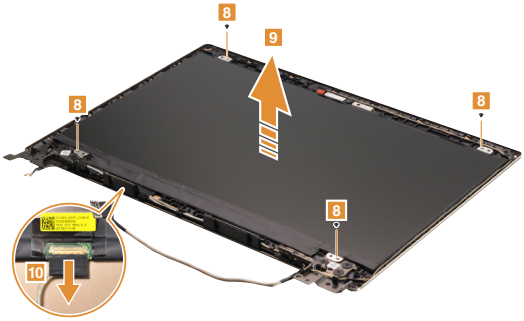
Remove the screws 6. Then remove the hinge cover in the direction shown by arrow 7.



Step	Screw (quantity)	Color	Torque
6	M2 × 2.3 mm, Phillips head, nylok-coated (2) hinge cover---lcd cover	Black	1.0~1.5 kgf*cm

Figure 14. Removal steps of LCD unit (continued)

Remove the screws 8. Lift the LCD panel slightly 9. Peel off the adhesive tape and detach the connector in the direction shown by arrow 10. Then remove the LCD panel.



Step	Screw (quantity)	Color	Torque
8	M2 × 2.3 mm, Phillips head, nylok-coated (4) lcd panel---lcd cover	Black	1.0~1.5 kgf*cm

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

1150 LCD hinges

For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49
- “1110 System board” on page 50
- “1120 Upper case” on page 52
- “1140 LCD unit” on page 55

Figure 15. Removal steps of LCD hinges

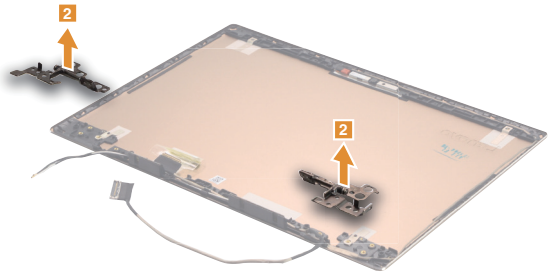
Remove the screws 1.



Step	Screw (quantity)	Color	Torque
1	M2.5 × 2.0 mm, Phillips head, nylok-coated (8) lcd brk---lcd cover	Black	1.5~2.0 kgf*cm

Figure 15. Removal steps of LCD hinges (continued)

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



1160 EDP cable and integrated camera

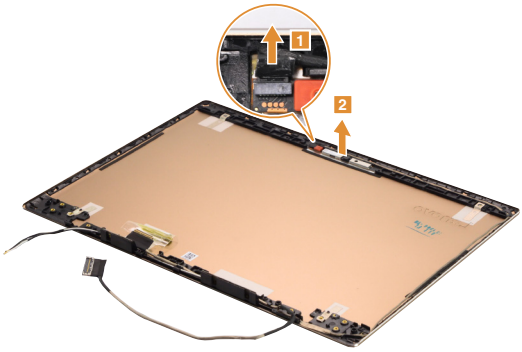
For access, remove these FRUs in order:

- “1010 Base cover” on page 32
- “1020 Battery pack” on page 35
- “1030 Solid state disk” on page 36
- “1040 Hard disk drive” on page 37
- “1060 PCI Express Mini Card for wireless LAN” on page 40
- “1070 Fan and heat sink assembly” on page 43
- “1080 IO board” on page 46
- “1090 Speaker” on page 48
- “1100 Fingerprint module (Lenovo ideapad 520S-14IKB) (on select models)” on page 49
- “1110 System board” on page 50
- “1120 Upper case” on page 52
- “1140 LCD unit” on page 55
- “1150 LCD hinges” on page 58

Figure 16. Removal steps of EDP cable and integrated camera

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

Detach the connector in the direction shown by arrow 1, then remove the camera board in the direction shown by arrow 2.



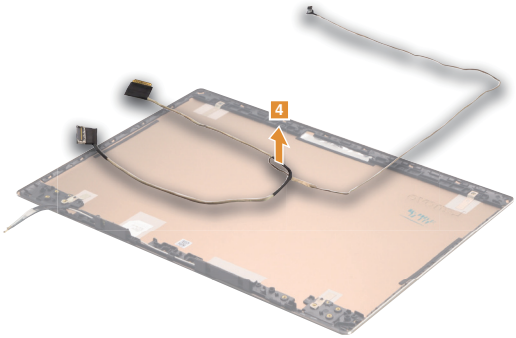
When installing: Stick the integrated camera to the top center of the LCD cover and adjust the placement of it to make sure the connector is attached firmly.

Figure 16. Removal steps of EDP cable and integrated camera (continued)

Peel off the adhesive tape 3.



Remove the EDP cable in the direction shown by arrow 4.



Locations

Front and right-side view

1 Integrated camera
2 Built-in microphone
3 Computer display
4 Wireless LAN antennas
5 Power button
6 Touchpad
7 Fingerprint reader (Lenovo ideapad 520S-14IKB) (on select models)
8 Novo button
9 Memory card slot
10 USB 2.0 port
11 Kensington mini security slot



Bottom and left-side view

1 Speakers
2 Power status indicator
Note: For the description of each indicator, see “Status indicators” on page 28.
3 Combo audio jack
4 Type-C port
5 USB 3.0 port
6 HDMI port
7 Battery status indicator
Note: For the description of each indicator, see “Status indicators” on page 28.
8 AC power adapter jack



Parts list

This section presents the following service parts:

- “Overall” on page 65
- “LCD FRUs” on page 75
- “Miscellaneous parts” on page 77
- “AC adapters” on page 77
- “Screws” on page 79

Note:

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

Attention:

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

Overall

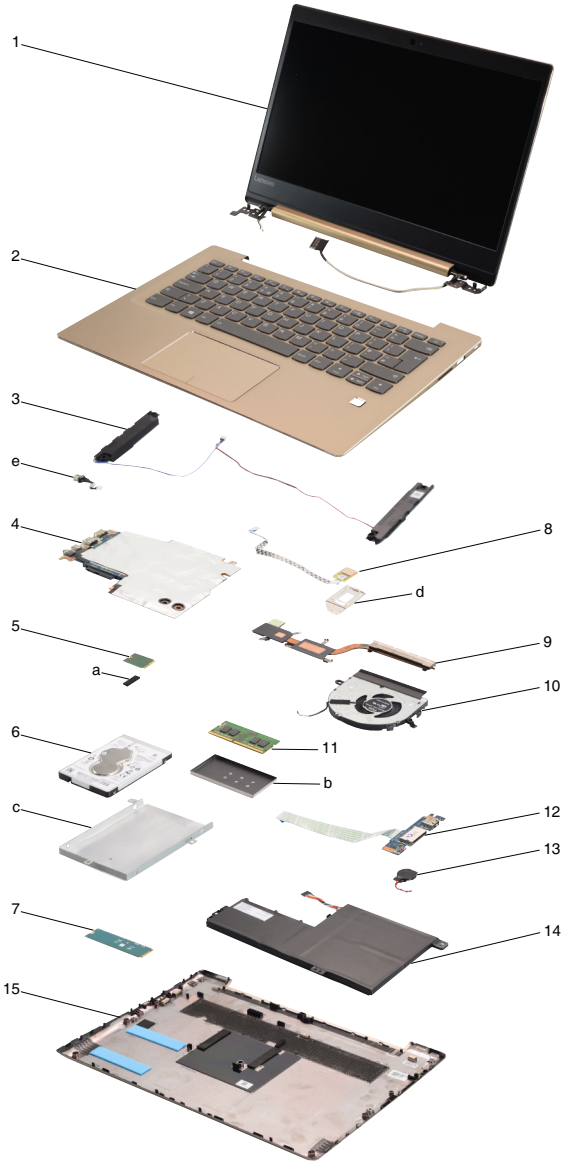


Table 5. Parts list—Overall

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
a-e	See “Miscellaneous parts” on page 77.				
1	LCD unit (see “LCD FRUs” on page 75.)				
2	UpperCaseC80X4 MGR W/KB NFP NBL US	5CB0N78343	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL GRK	5CB0N78353	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL INT'E	5CB0N78347	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL KOR	5CB0N78345	N	●	
2	UpperCaseC80X4 MGRW/KB NFPNBL T-CH	5CB0N78350	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL RUS	5CB0N78326	N	●	
2	UpperCaseC80X4 MGRW/KB NFPNBL AR-E	5CB0N78338	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL HEB	5CB0N78366	N	●	
2	UpperCaseC80X4 MGRW/KB NFPNBL THAI	5CB0N78324	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL INDIA	5CB0N78367	N	●	
2	UpperCaseC80X4 MGR W/KB NFP NBL UK	5CB0N78301	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL ITA	5CB0N78321	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL SPN	5CB0N78337	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL TUR	5CB0N78348	N	●	
2	UpperCaseC80X4 MGRW/KB NFPNBL PORT	5CB0N78297	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL LATIN	5CB0N78320	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL CF-EN	5CB0N78344	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL NORDI	5CB0N78328	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL FRE	5CB0N78371	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL GER	5CB0N78296	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL BRA	5CB0N78340	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL DUTCH	5CB0N78362	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL HUN	5CB0N78292	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL BEL	5CB0N78330	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL ICE	5CB0N78325	N	●	
2	UpperCaseC80X4 MGRW/KB NFPNBL SLVN	5CB0N78352	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL SW	5CB0N78368	N	●	
2	UpperCaseC80X4 MGRW/KB NFP NBL BUL	5CB0N78372	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL CZ-SK	5CB0N78315	N	●	
2	UpperCaseC80X4 MGRW/KBNFPNBL AR-FR	5CB0N78355	N	●	
2	UpperCaseC80X4 MGR W/KBNFP NBL UKR	5CB0N78361	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL US	5CB0N78370	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL GRK	5CB0N78346	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL INT'E	5CB0N78295	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL KOR	5CB0N78299	N	●	
2	UpperCaseC80X4 SW W/KB NFPNBL T-CH	5CB0N78310	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL RUS	5CB0N78319	N	●	
2	UpperCaseC80X4 SW W/KB NFPNBL AR-E	5CB0N78313	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL HEB	5CB0N78351	N	●	
2	UpperCaseC80X4 SW W/KB NFPNBL THAI	5CB0N78336	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL INDIA	5CB0N78332	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL UK	5CB0N78339	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL ITA	5CB0N78309	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL SPN	5CB0N78354	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL TUR	5CB0N78335	N	●	
2	UpperCaseC80X4 SW W/KB NFPNBL PORT	5CB0N78311	N	●	

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	UpperCaseC80X4 SW W/KBNFPNBL LATIN	5CB0N78357	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL CF-EN	5CB0N78360	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL NORDI	5CB0N78293	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL FRE	5CB0N78308	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL GER	5CB0N78364	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL BRA	5CB0N78359	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL DUTCH	5CB0N78334	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL HUN	5CB0N78316	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL BEL	5CB0N78306	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL ICE	5CB0N78369	N	●	
2	UpperCaseC80X4 SW W/KB NFPNBL SLVN	5CB0N78294	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL SW	5CB0N78349	N	●	
2	UpperCaseC80X4 SW W/KB NFP NBL BUL	5CB0N78341	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL CZ-SK	5CB0N78356	N	●	
2	UpperCaseC80X4 SW W/KBNFPNBL AR-FR	5CB0N78312	N	●	
2	UpperCaseC80X4 SW W/KBNFP NBL UKR	5CB0N78331	N	●	
2	Upper Case C 80X2 MGR FP BL W/KB US	5CB0N78617	N		●
2	Upper Case C 80X2 MGR FP BL W/KB GK	5CB0N78494	N		●
2	Upper Case C 80X2 MGR FP BL W/KB US INT'E	5CB0N78481	N		●
2	Upper Case C 80X2 MGR FP BL W/KB KO	5CB0N78495	N		●
2	Upper Case C 80X2 MGR FP BL W/KB CH	5CB0N78663	N		●
2	Upper Case C 80X2 MGR FP BL W/KB RU	5CB0N78627	N		●
2	Upper Case C 80X2 MGR FP BL W/KB AR-E	5CB0N78614	N		●
2	Upper Case C 80X2 MGR FP BL W/KB HB	5CB0N78635	N		●
2	Upper Case C 80X2 MGR FP BL W/KB TI	5CB0N78463	N		●
2	Upper Case C 80X2 MGR FP BL W/KB INDIA	5CB0N78413	N		●
2	Upper Case C 80X2 MGR FP BL W/KB UK	5CB0N78485	N		●
2	Upper Case C 80X2 MGR FP BL W/KB IT	5CB0N78388	N		●
2	Upper Case C 80X2 MGR FP BL W/KB SP	5CB0N78393	N		●
2	Upper Case C 80X2 MGR FP BL W/KB TR	5CB0N78556	N		●
2	Upper Case C 80X2 MGR FP BL W/KB PO	5CB0N78594	N		●
2	Upper Case C 80X2 MGR FP BL W/KB LA	5CB0N78683	N		●
2	Upper Case C 80X2 MGR FP BL W/KB CF-E	5CB0N78589	N		●
2	Upper Case C 80X2 MGR FP BL W/KB ND	5CB0N78493	N		●
2	Upper Case C 80X2 MGR FP BL W/KB FR	5CB0N78392	N		●
2	Upper Case C 80X2 MGR FP BL W/KB GR	5CB0N78681	N		●
2	Upper Case C 80X2 MGR FP BL W/KB BZ	5CB0N78587	N		●
2	Upper Case C 80X2 MGR FP BL W/KB NL	5CB0N78622	N		●
2	Upper Case C 80X2 MGR FP BL W/KB HG	5CB0N78427	N		●
2	Upper Case C 80X2 MGR FP BL W/KB BE	5CB0N78555	N		●
2	Upper Case C 80X2 MGR FP BL W/KB ICE	5CB0N78580	N		●
2	Upper Case C 80X2 MGR FP BL W/KB SA	5CB0N78669	N		●
2	Upper Case C 80X2 MGR FP BL W/KB SW	5CB0N78508	N		●
2	Upper Case C 80X2 MGR FP BL W/KB BU	5CB0N78597	N		●
2	Upper Case C 80X2 MGR FP BL W/KB CZ-SK	5CB0N78630	N		●
2	Upper Case C 80X2 MGR FP BL W/KB FR-AR	5CB0N78670	N		●
2	Upper Case C 80X2 MGR FP BL W/KB UKR	5CB0N78609	N		●
2	Upper Case C 80X2 MGR FP BL W/KB USA	5CB0N78524	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	Upper Case C 80X2 MGR FP NBL W/KB US	5CB0N78462	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB GK	5CB0N78477	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB US INT'E	5CB0N78675	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB KO	5CB0N78607	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB CH	5CB0N78689	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB RU	5CB0N78621	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB AR-E	5CB0N78645	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB HB	5CB0N78563	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB TI	5CB0N78565	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB INDIA	5CB0N78678	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB UK	5CB0N78620	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB IT	5CB0N78641	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB SP	5CB0N78685	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB TR	5CB0N78453	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB PO	5CB0N78501	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB LA	5CB0N78450	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB CF-E	5CB0N78452	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB ND	5CB0N78385	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB FR	5CB0N78516	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB GR	5CB0N78619	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB BZ	5CB0N78417	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB NL	5CB0N78445	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB HG	5CB0N78439	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB BE	5CB0N78466	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB ICE	5CB0N78658	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB SA	5CB0N78483	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB SW	5CB0N78652	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB BU	5CB0N78400	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB CZ-SK	5CB0N78402	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB FR-AR	5CB0N78461	N		●
2	Upper Case C 80X2 MGR FP NBL W/KB UKR	5CB0N78523	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB US	5CB0N78559	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB GK	5CB0N78612	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB US INT'E	5CB0N78496	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB KO	5CB0N78608	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB CH	5CB0N78437	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB RU	5CB0N78504	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB AR-E	5CB0N78568	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB HB	5CB0N78511	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB TI	5CB0N78419	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB INDIA	5CB0N78682	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB UK	5CB0N78690	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB IT	5CB0N78475	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB SP	5CB0N78418	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB TR	5CB0N78471	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB PO	5CB0N78423	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB LA	5CB0N78680	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB CF-E	5CB0N78440	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	Upper Case C 80X2 MGR NFP BL W/KB ND	5CB0N78491	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB FR	5CB0N78456	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB GR	5CB0N78643	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB BZ	5CB0N78478	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB NL	5CB0N78655	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB HG	5CB0N78561	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB BE	5CB0N78515	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB ICE	5CB0N78583	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB SA	5CB0N78404	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB SW	5CB0N78536	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB BU	5CB0N78560	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB CZ-SK	5CB0N78401	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB FR-AR	5CB0N78569	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB UKR	5CB0N78644	N		●
2	Upper Case C 80X2 MGR NFP BL W/KB USA	5CB0N78446	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB US	5CB0N78443	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB GK	5CB0N78490	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB US INT'E	5CB0N78518	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB KO	5CB0N78667	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB CH	5CB0N78613	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB RU	5CB0N78486	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB AR-E	5CB0N78600	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB HB	5CB0N78550	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB TI	5CB0N78564	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB INDIA	5CB0N78460	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB UK	5CB0N78615	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB IT	5CB0N78592	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB SP	5CB0N78542	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB TR	5CB0N78677	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB PO	5CB0N78519	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB LA	5CB0N78530	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB CF-E	5CB0N78657	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB ND	5CB0N78500	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB FR	5CB0N78660	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB GR	5CB0N78573	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB BZ	5CB0N78650	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB NL	5CB0N78673	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB HG	5CB0N78567	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB BE	5CB0N78638	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB ICE	5CB0N78395	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB SA	5CB0N78457	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB SW	5CB0N78595	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB BU	5CB0N78469	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB CZ-SK	5CB0N78654	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB FR-AR	5CB0N78581	N		●
2	Upper Case C 80X2 MGR NFP NBL W/KB UKR	5CB0N78639	N		●
2	Upper Case C 80X2 GD FP BL W/KB US	5CB0N78415	N		●
2	Upper Case C 80X2 GD FP BL W/KB GK	5CB0N78434	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	Upper Case C 80X2 GD FP BL W/KB US INT'E	5CB0N78570	N		●
2	Upper Case C 80X2 GD FP BL W/KB KO	5CB0N78538	N		●
2	Upper Case C 80X2 GD FP BL W/KB CH	5CB0N78455	N		●
2	Upper Case C 80X2 GD FP BL W/KB RU	5CB0N78410	N		●
2	Upper Case C 80X2 GD FP BL W/KB AR-E	5CB0N78562	N		●
2	Upper Case C 80X2 GD FP BL W/KB HB	5CB0N78430	N		●
2	Upper Case C 80X2 GD FP BL W/KB TI	5CB0N78498	N		●
2	Upper Case C 80X2 GD FP BL W/KB INDIA	5CB0N78405	N		●
2	Upper Case C 80X2 GD FP BL W/KB UK	5CB0N78552	N		●
2	Upper Case C 80X2 GD FP BL W/KB IT	5CB0N78629	N		●
2	Upper Case C 80X2 GD FP BL W/KB SP	5CB0N78653	N		●
2	Upper Case C 80X2 GD FP BL W/KB TR	5CB0N78396	N		●
2	Upper Case C 80X2 GD FP BL W/KB PO	5CB0N78487	N		●
2	Upper Case C 80X2 GD FP BL W/KB LA	5CB0N78406	N		●
2	Upper Case C 80X2 GD FP BL W/KB CF-E	5CB0N78664	N		●
2	Upper Case C 80X2 GD FP BL W/KB ND	5CB0N78412	N		●
2	Upper Case C 80X2 GD FP BL W/KB FR	5CB0N78548	N		●
2	Upper Case C 80X2 GD FP BL W/KB GR	5CB0N78668	N		●
2	Upper Case C 80X2 GD FP BL W/KB BZ	5CB0N78509	N		●
2	Upper Case C 80X2 GD FP BL W/KB NL	5CB0N78416	N		●
2	Upper Case C 80X2 GD FP BL W/KB HG	5CB0N78447	N		●
2	Upper Case C 80X2 GD FP BL W/KB BE	5CB0N78628	N		●
2	Upper Case C 80X2 GD FP BL W/KB ICE	5CB0N78554	N		●
2	Upper Case C 80X2 GD FP BL W/KB SA	5CB0N78634	N		●
2	Upper Case C 80X2 GD FP BL W/KB SW	5CB0N78599	N		●
2	Upper Case C 80X2 GD FP BL W/KB BU	5CB0N78506	N		●
2	Upper Case C 80X2 GD FP BL W/KB CZ-SK	5CB0N78575	N		●
2	Upper Case C 80X2 GD FP BL W/KB FR-AR	5CB0N78459	N		●
2	Upper Case C 80X2 GD FP BL W/KB UKR	5CB0N78421	N		●
2	Upper Case C 80X2 GD FP BL W/KB USA	5CB0N78582	N		●
2	Upper Case C 80X2 GD FP NBL W/KB US	5CB0N78448	N		●
2	Upper Case C 80X2 GD FP NBL W/KB GK	5CB0N78510	N		●
2	Upper Case C 80X2 GD FP NBL W/KB US INT'E	5CB0N78598	N		●
2	Upper Case C 80X2 GD FP NBL W/KB KO	5CB0N78547	N		●
2	Upper Case C 80X2 GD FP NBL W/KB CH	5CB0N78546	N		●
2	Upper Case C 80X2 GD FP NBL W/KB RU	5CB0N78534	N		●
2	Upper Case C 80X2 GD FP NBL W/KB AR-E	5CB0N78571	N		●
2	Upper Case C 80X2 GD FP NBL W/KB HB	5CB0N78505	N		●
2	Upper Case C 80X2 GD FP NBL W/KB TI	5CB0N78684	N		●
2	Upper Case C 80X2 GD FP NBL W/KB INDIA	5CB0N78649	N		●
2	Upper Case C 80X2 GD FP NBL W/KB UK	5CB0N78467	N		●
2	Upper Case C 80X2 GD FP NBL W/KB IT	5CB0N78424	N		●
2	Upper Case C 80X2 GD FP NBL W/KB SP	5CB0N78387	N		●
2	Upper Case C 80X2 GD FP NBL W/KB TR	5CB0N78473	N		●
2	Upper Case C 80X2 GD FP NBL W/KB PO	5CB0N78522	N		●
2	Upper Case C 80X2 GD FP NBL W/KB LA	5CB0N78389	N		●
2	Upper Case C 80X2 GD FP NBL W/KB CF-E	5CB0N78531	N		●
2	Upper Case C 80X2 GD FP NBL W/KB ND	5CB0N78539	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	Upper Case C 80X2 GD FP NBL W/KB FR	5CB0N78624	N		●
2	Upper Case C 80X2 GD FP NBL W/KB GR	5CB0N78591	N		●
2	Upper Case C 80X2 GD FP NBL W/KB BZ	5CB0N78671	N		●
2	Upper Case C 80X2 GD FP NBL W/KB NL	5CB0N78533	N		●
2	Upper Case C 80X2 GD FP NBL W/KB HG	5CB0N78432	N		●
2	Upper Case C 80X2 GD FP NBL W/KB BE	5CB0N78646	N		●
2	Upper Case C 80X2 GD FP NBL W/KB ICE	5CB0N78676	N		●
2	Upper Case C 80X2 GD FP NBL W/KB SA	5CB0N78465	N		●
2	Upper Case C 80X2 GD FP NBL W/KB SW	5CB0N78637	N		●
2	Upper Case C 80X2 GD FP NBL W/KB BU	5CB0N78464	N		●
2	Upper Case C 80X2 GD FP NBL W/KB CZ-SK	5CB0N78543	N		●
2	Upper Case C 80X2 GD FP NBL W/KB FR-AR	5CB0N78687	N		●
2	Upper Case C 80X2 GD FP NBL W/KB UKR	5CB0N78391	N		●
2	Upper Case C 80X2 GD NFP BL W/KB US	5CB0N78579	N		●
2	Upper Case C 80X2 GD NFP BL W/KB GK	5CB0N78435	N		●
2	Upper Case C 80X2 GD NFP BL W/KB US INT'E	5CB0N78551	N		●
2	Upper Case C 80X2 GD NFP BL W/KB KO	5CB0N78633	N		●
2	Upper Case C 80X2 GD NFP BL W/KB CH	5CB0N78409	N		●
2	Upper Case C 80X2 GD NFP BL W/KB RU	5CB0N78576	N		●
2	Upper Case C 80X2 GD NFP BL W/KB AR-E	5CB0N78431	N		●
2	Upper Case C 80X2 GD NFP BL W/KB HB	5CB0N78642	N		●
2	Upper Case C 80X2 GD NFP BL W/KB TI	5CB0N78584	N		●
2	Upper Case C 80X2 GD NFP BL W/KB INDIA	5CB0N78499	N		●
2	Upper Case C 80X2 GD NFP BL W/KB UK	5CB0N78414	N		●
2	Upper Case C 80X2 GD NFP BL W/KB IT	5CB0N78602	N		●
2	Upper Case C 80X2 GD NFP BL W/KB SP	5CB0N78604	N		●
2	Upper Case C 80X2 GD NFP BL W/KB TR	5CB0N78442	N		●
2	Upper Case C 80X2 GD NFP BL W/KB PO	5CB0N78527	N		●
2	Upper Case C 80X2 GD NFP BL W/KB LA	5CB0N78507	N		●
2	Upper Case C 80X2 GD NFP BL W/KB CF-E	5CB0N78596	N		●
2	Upper Case C 80X2 GD NFP BL W/KB ND	5CB0N78426	N		●
2	Upper Case C 80X2 GD NFP BL W/KB FR	5CB0N78480	N		●
2	Upper Case C 80X2 GD NFP BL W/KB GR	5CB0N78468	N		●
2	Upper Case C 80X2 GD NFP BL W/KB BZ	5CB0N78520	N		●
2	Upper Case C 80X2 GD NFP BL W/KB NL	5CB0N78408	N		●
2	Upper Case C 80X2 GD NFP BL W/KB HG	5CB0N78593	N		●
2	Upper Case C 80X2 GD NFP BL W/KB BE	5CB0N78545	N		●
2	Upper Case C 80X2 GD NFP BL W/KB ICE	5CB0N78610	N		●
2	Upper Case C 80X2 GD NFP BL W/KB SA	5CB0N78398	N		●
2	Upper Case C 80X2 GD NFP BL W/KB SW	5CB0N78611	N		●
2	Upper Case C 80X2 GD NFP BL W/KB BU	5CB0N78479	N		●
2	Upper Case C 80X2 GD NFP BL W/KB CZ-SK	5CB0N78472	N		●
2	Upper Case C 80X2 GD NFP BL W/KB FR-AR	5CB0N78558	N		●
2	Upper Case C 80X2 GD NFP BL W/KB UKR	5CB0N78489	N		●
2	Upper Case C 80X2 GD NFP BL W/KB USA	5CB0N78517	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB US	5CB0N78691	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB GK	5CB0N78577	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB US INT'E	5CB0N78521	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
2	Upper Case C 80X2 GD NFP NBL W/KB KO	5CB0N78386	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB CH	5CB0N78541	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB RU	5CB0N78528	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB AR-E	5CB0N78688	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB HB	5CB0N78399	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB TI	5CB0N78514	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB INDIA	5CB0N78626	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB UK	5CB0N78390	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB IT	5CB0N78537	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB SP	5CB0N78474	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB TR	5CB0N78476	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB PO	5CB0N78532	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB LA	5CB0N78661	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB CF-E	5CB0N78549	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB ND	5CB0N78444	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB FR	5CB0N78603	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB GR	5CB0N78590	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB BZ	5CB0N78692	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB NL	5CB0N78449	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB HG	5CB0N78648	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB BE	5CB0N78601	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB ICE	5CB0N78513	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB SA	5CB0N78502	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB SW	5CB0N78394	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB BU	5CB0N78492	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB CZ-SK	5CB0N78407	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB FR-AR	5CB0N78586	N		●
2	Upper Case C 80X2 GD NFP NBL W/KB UKR	5CB0N78535	N		●
3	520S-14 Veco 1224 Speaker	5SB0M65365	N	●	●
3	520S-14 YG 1224 Speaker	5SB0M65364	N	●	●
4	MB C 80X4NOK 4415U UMA NBL NFP	5B20N78314	N	●	
4	MB C 80X4WIN 4415U UMA NBL NFP	5B20N78323	N	●	
4	MB C 80X4NOKI5-7200U UMANBL NFP	5B20N78303	N	●	
4	MB C 80X4WINI5-7200U UMANBL NFP	5B20N78317	N	●	
4	MB C 80X4NOKI7-7500U UMANBL NFP	5B20N78333	N	●	
4	MB C 80X4WINI7-7500U UMANBL NFP	5B20N78305	N	●	
4	MB C 80X4 NOK 4415U 2G NBL NFP	5B20N78365	N	●	
4	MB C 80X4 WIN 4415U 2G NBL NFP	5B20N78307	N	●	
4	MB C 80X4NOKI5-7200U 2G NBL NFP	5B20N78322	N	●	
4	MB C 80X4WINI5-7200U 2G NBL NFP	5B20N78302	N	●	
4	MB C 80X4NOKI7-7500U 2G NBL NFP	5B20N78300	N	●	
4	MB C 80X4WINI7-7500U 2G NBL NFP	5B20N78358	N	●	
4	MB C 80X2 NOK I57200U UMA NFP BL	5B20N78679	N		●
4	MB C 80X2 WIN I57200U UMA NFP BL	5B20N78662	N		●
4	MB C 80X2 NOK I57200U UMA NFP NBL	5B20N78672	N		●
4	MB C 80X2 WIN I57200U UMA NFP NBL	5B20N78422	N		●
4	MB C 80X2 NOK I77500U UMA NFP BL	5B20N78497	N		●
4	MB C 80X2 WIN I77500U UMA NFP BL	5B20N78636	N		●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
4	MB C 80X2 NOK I77500U UMA NFP NBL	5B20N78526	N		●
4	MB C 80X2 WIN I77500U UMA NFP NBL	5B20N78488	N		●
4	MB C 80X2 NOK I57200U N16SGTR_2G NFP BL	5B20N78625	N		●
4	MB C 80X2 WIN I57200U N16SGTR_2G NFP BL	5B20N78640	N		●
4	MB C 80X2 NOK I57200U N16SGTR_2G NFP NBL	5B20N78512	N		●
4	MB C 80X2 WIN I57200U N16SGTR_2G NFP NBL	5B20N78553	N		●
4	MB C 80X2 NOK I77500U N16SGTR_2G NFP BL	5B20N78529	N		●
4	MB C 80X2 WIN I77500U N16SGTR_2G NFP BL	5B20N78631	N		●
4	MB C 80X2 NOK I77500U N16SGTR_2G NFP NBL	5B20N78525	N		●
4	MB C 80X2 WIN I77500U N16SGTR_2G NFP NBL	5B20N78585	N		●
4	MB C 80X2 NOK I57200U UMA FP BL	5B20N78433	N		●
4	MB C 80X2 WIN I57200U UMA FP BL	5B20N78605	N		●
4	MB C 80X2 NOK I57200U UMA FP NBL	5B20N78403	N		●
4	MB C 80X2 WIN I57200U UMA FP NBL	5B20N78425	N		●
4	MB C 80X2 NOK I77500U UMA FP BL	5B20N78623	N		●
4	MB C 80X2 WIN I77500U UMA FP BL	5B20N78454	N		●
4	MB C 80X2 NOK I77500U UMA FP NBL	5B20N78397	N		●
4	MB C 80X2 WIN I77500U UMA FP NBL	5B20N78651	N		●
4	MB C 80X2 NOK I57200U N16SGTR_2G FP BL	5B20N78420	N		●
4	MB C 80X2 WIN I57200U N16SGTR_2G FP BL	5B20N78470	N		●
4	MB C 80X2 NOK I57200U N16SGTR_2G FP NBL	5B20N78666	N		●
4	MB C 80X2 WIN I57200U N16SGTR_2G FP NBL	5B20N78588	N		●
4	MB C 80X2 NOK I77500U N16SGTR_2G FP BL	5B20N78411	N		●
4	MB C 80X2 WIN I77500U N16SGTR_2G FP BL	5B20N78606	N		●
4	MB C 80X2 NOK I77500U N16SGTR_2G FP NBL	5B20N78572	N		●
4	MB C 80X2 WIN I77500U N16SGTR_2G FP NBL	5B20N78659	N		●
5	Intel 3165 1x1AC+BT PCIE M.2 WLAN	SW10H24486	N	●	●
5	Ltn NFA435A 1x1AC+BT4.0 PCIE M.2 WLAN	SW10K97461	N	●	●
5	Cbt RTL8821AE 1x1AC+BT4.0 PCIE M.2 WLAN	SW10A11648	N	●	●
5	Intel 8265 2x2AC+BT PCIE M.2 WLAN NV	SW10K97453	N		●
5	Ltn NFA344A 2x2AC+BT4.x PCIE M.2 WLAN	SW10K97465	N		●
6	HDD, Seagate ST1000LM035 1T 2.5" 7mm 5400rpm HDD	5H20L22184	N	●	●
6	HDD, WD10SPCX-24HWST1 6G 7mm 1T HDD	16200554	N	●	●
6	HDD, SMR, (ETD) 9th/May	TBD	N	●	●
6	HDD, SMR, (ETD) 8th/May	TBD	N	●	●
6	HDD, ST500LT012 6G 7mm 5.4K 500G HDD	16200383	N		●
6	HDD, WD5000LPCX-24VHAT0 7mm 5400rpm 500G HDD	5H20J35762	N		●
6	HDD, MQ01ABF050 6G 7mm 5.4K 500G HDD	5H20L34560	N		●
7	SSD, PM961 MZVLW128HEGR PCIE 128G SSD	5SD0L73445	N	●	●
7	SSD, XG4 128GB M.2 2280 PCIe-NVMe THNSN5128GPUK SSD	5SD0M56301	N	●	●
7	SSD, MZYTY256HDHP-000L2 2.5" 256G 5mm SSD	5SD0L14644	N	●	●
7	SSD, CV3-DE256 2.5" 5mm 256G SSD	5SD0L02316	N	●	●
7	SSD, 5mm 256GB 2.5" SATA 6Gb/s RTNRB128RFM2KWDL SSD	5SD0M61139	N	●	●

Table 5. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
7	SSD, Ramaxel S162 RTNTE256PCA8EADL 2.5" 5mm 256G SSD	5SD0L82501	N	●	●
7	SSD, MZYTN512HDJH 2.5" 5mmT 512G SSD	5SD0L77695	N	●	●
7	SSD, CV3-DE512 2.5" 5mm 512G SSD	5SD0L02321	N	●	●
7	SSD, TBD, QS in 2017/7		N		●
8	FP Board C 80X2 MGR W/cable	5C50N78574	N		●
8	FP Board C 80X2 GD W/cable	5C50N78428	N		●
9	Heatsink C 80X2 UMA	5H40N78429	N	●	●
9	Heatsink C 80X2 DIS	5H40N78618	N	●	●
10	Fan C 80X2	5F10N78686	N	●	●
11	RAM, M471A5244CB0-CRC	SM30M49902	N	●	●
11	RAM, HMA851S6AFR6N-UH	SM30G16505	N	●	●
11	RAM, MTA4ATF51264HZ-2G3B1	SM30G16506	N	●	●
11	RAM, RMSA3270MB86H9F-2400	SM30G16507	N	●	●
11	RAM, 4GB D4 2400 Sodimm	SM30K25286	N	●	
11	RAM, M471A1K43CB1-CRC	SM30M49901	N	●	●
11	RAM, HMA81GS6AFR8N-UH	SM30G16509	N	●	●
11	RAM, MTA8ATF1G64HZ-2G3B1	SM30G16510	N	●	●
11	RAM, RMSA3260MB78HAF-2400	SM30G16511	N	●	●
12	I/O Board C 80X4 W/Cable	5C50N78342	N	●	
12	I/O Board C 80X2 W/cable	5C50N78632	N		●
13	RTC Battery C 80X2	5B10N78674	N	●	●
14	Battery, 520S SP/A L14M2P21 7.4V30Wh2cell bty	5B10M49823	N	●	●
14	Battery, 520S SP/C L14M2P21 7.4V30Wh2cell bty	5B10M49822	N	●	●
14	Battery, 520S LGL14L2P21 7.4V30Wh2cell bty	5B10M49825	N	●	●
14	Battery, 520S SP/A L15M3PB0 11.25V52.5Wh3cell bty	5B10M49824	N	●	●
14	Battery, 520S CP/C L15C3PB1 11.4V52.5Wh3cell bty	5B10M49821	N	●	●
14	Battery, 520S LG L15L3PB0 11.4V52.5Wh3cell bty	5B10M49826	N	●	●
15	Lower Case C 80X4 MGR	5CB0N78329	N	●	
15	Lower Case C 80X4 SW	5CB0N78298	N	●	
15	Lower Case C 80X2 MGR	5CB0N78458	N		●
15	Lower Case C 80X2 GD	5CB0N78557	N		●
—	AC adapter (see “AC adapters” on page 77).				

LCD FRUs

In Lenovo ideapad 320S-14IKB/ Lenovo ideapad 320SH-14IKB/ Lenovo ideapad 320SL-14IKB/ Lenovo ideapad 320SR-14IKB/ Lenovo ideapad 320SE-14IKB/ Lenovo ideapad 520S-14IKB/ Lenovo ideapad 520SH-14IKB/ Lenovo ideapad 520SL-14IKB/ Lenovo ideapad 520SR-14IKB/ Lenovo ideapad 520SE-14IKB, there are following types of LCDs.

- “14.0-in. HD/FHD LED”

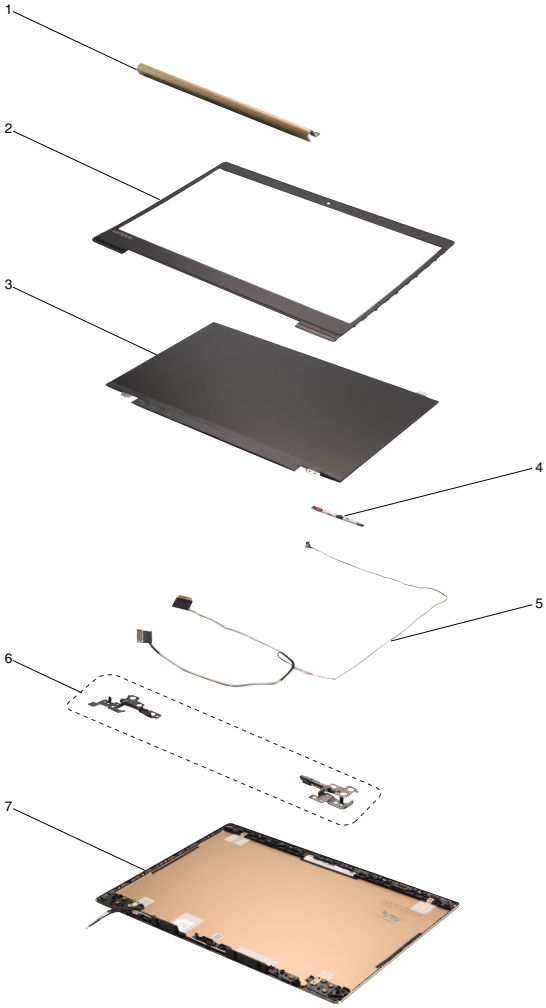


Table 6. Parts list—LCD FRUs

No.	FRU	FRU no.	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
1	Hinge Cover C 80X4 SW	5CB0N78304	N	●	
1	Hinge Cover C 80X2 MGR	5CB0N78566	N	●	●
1	Hinge Cover C 80X2 GD	5CB0N78503	N		●
2	LCD Bezel C 80X2	5B30N78665	N	●	●
3	Panel, IN N140BGA-EA4 C1 HDT AG S NB	5D10M42893	N	●	●
3	Panel, BO NT140WHM-N44 V8.0 HDT AG S NB	5D10M42871	N	●	●
3	Panel, LG LP140WF7-SPK2 FHDI AG S NB	5D10M55964	N	●	●
3	Panel, AU B140HAN04.2 0A FHDI AG S NB	5D10M42869	N	●	●
3	Panel, IN N140HCA-EAC C1 FHDI AG S NB	5D10M42878	N	●	●
3	Panel, BO NV140FHM-N49 FHDI AG S NB	5D10M42868	N	●	●
3	Panel, IV M140NWF5 R3 FHDI AG S NB	5D10M53950	N	●	●
4	Camera C 80X2 720P	5C20N78544	N	●	●
4	Camera C 80X2 0.3M	5C20N78441	N	●	●
5	EDP Cable C 80X2	5C10N78578	N	●	●
6	HINGE R&L C 80X2	5H50N78482	N	●	●
7	LCD Cover C 80X4 W/Antenna MGR	5CB0N78327	N	●	
7	LCD Cover C 80X4 W/Antenna SW	5CB0N78318	N	●	
7	LCD Cover C 80X2 MGR W/antenna	5CB0N78438	N		●
7	LCD Cover C 80X2 GD W/antenna	5CB0N78656	N		●

Miscellaneous parts

Table 7. Parts list—Miscellaneous parts

FRU	P/N	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
System miscellaneous parts:				
• *(a)* WLAN Sponge C 80X2	5T10N78616	N	●	●
• *(b)* Dimm Emi Shielding C 80X2	5S60N78436	N	●	●
• *(c)* HDD Bracket C 80X2	5B40N78484	N	●	●
• *(d)* FP Bracket C 80X2	5B40N78451	N		●
Cable miscellaneous parts:				
• *(e)* DC-IN Cable C 80X2	5C10N78540	N	●	●
Note: Italicized letters in parentheses are references to the exploded view in “Overall” on page 65.				

AC adapters

Table 8. Parts list—AC adapters

FRU	P/N	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
Delta ADP-45DW A 20V2.25A adapter	5A10H43620	*	●	●
Delta ADP-45DW J 20V2.25A adapter	5A10H43623	*	●	●
Delta ADP-45DW B 20V2.25A adapter	5A10H43630	*	●	●
Delta ADP-45DW D 20V2.25A adapter	5A10H43621	*	●	●
Delta ADP-45DW H 20V2.25A adapter	5A10H43627	*	●	●
Delta ADP-45DW G 20V2.25A adapter	5A10H43617	*	●	●
Delta ADP-45DW E 20V2.25A adapter	5A10H43626	*	●	●
Delta ADP-45DW C 20V2.25A adapter	5A10H43632	*	●	●
Delta ADP-45DW K 20V2.25A adapter	5A10H43624	*	●	●
Liteon PA-1450-55LN 20V2.25A adapter	5A10H42921	*	●	●
Liteon PA-1450-55LG 20V2.25A adapter	5A10H42920	*	●	●
Liteon PA-1450-55LL 20V2.25A adapter	5A10H42923	*	●	●
Liteon PA-1450-55LK 20V2.25A adapter	5A10H42917	*	●	●
Liteon PA-1450-55LI 20V2.25A adapter	5A10H42926	*	●	●
Liteon PA-1450-55LR 20V2.25A adapter	5A10H42919	*	●	●
Liteon PA-1450-55LS 20V2.25A adapter	5A10H42922	*	●	●
Liteon PA-1450-55LU 20V2.25A adapter	5A10H42925	*	●	●
Liteon PA-1450-55LZ 20V2.25A adapter	5A10H42918	*	●	●
Chicony ADL45WCA 20V2.25A adapter	5A10H43629	*	●	●
Chicony ADL45WCB 20V2.25A adapter	5A10H43618	*	●	●
Chicony ADL45WCC 20V2.25A adapter	5A10H43625	*	●	●
Chicony ADL45WCD 20V2.25A adapter	5A10H43631	*	●	●
Chicony ADL45WCK 20V2.25A adapter	5A10H43619	*	●	●
Chicony ADL45WCE 20V2.25A adapter	5A10H43633	*	●	●
Chicony ADL45WCF 20V2.25A adapter	5A10H43622	*	●	●
Chicony ADL45WCG 20V2.25A adapter	5A10H43628	*	●	●
Chicony ADL45WCH 20V2.25A adapter	5A10H43616	*	●	●
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	*	●	●

Table 8. Parts list—AC adapters (continued)

FRU	P/N	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
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 adapter	5A10K78762	*	●	●
Delta ADLX65CDGG2A 20V3.25A adapter	5A10K78739	*	●	●
Delta ADLX65CDGU2A 20V3.25A adapter	5A10K78742	*	●	●
Delta ADLX65CDGK2A 20V3.25A adapter	5A10K78743	*	●	●
Delta ADLX65CDGI2A 20V3.25A adapter	5A10K78759	*	●	●
Delta ADLX65CDGR2A 20V3.25A adapter	5A10K78748	*	●	●
Delta ADLX65CDGA2A 20V3.25A adapter	5A10K78741	*	●	●
Delta ADLX65CDGE2A 20V3.25A adapter	5A10K78753	*	●	●
Delta ADLX65CDGB2A 20V3.25A adapter	5A10K78754	*	●	●
Liteon ADLX65CLGC2A 20V3.25A adapter	5A10K78736	*	●	●
Liteon ADLX65CLGG2A 20V3.25A adapter	5A10K78749	*	●	●
Liteon ADLX65CLGU2A 20V3.25A adapter	5A10K78745	*	●	●
Liteon ADLX65CLGK2A 20V3.25A adapter	5A10K78750	*	●	●
Liteon ADLX65CLGI2A 20V3.25A adapter	5A10K78740	*	●	●
Liteon ADLX65CLGR2A 20V3.25A adapter	5A10K78746	*	●	●
Liteon ADLX65CLGA2A 20V3.25A adapter	5A10K78758	*	●	●
Liteon ADLX65CLGE2A 20V3.25A adapter	5A10K78752	*	●	●
Liteon ADLX65CLGB2A 20V3.25A adapter	5A10K78755	*	●	●
Chicony ADLX65CCGC2A 20V3.25A adapter	5A10K78744	*	●	●
Chicony ADLX65CCGG2A 20V3.25A adapter	5A10K78756	*	●	●
Chicony ADLX65CCGU2A 20V3.25A adapter	5A10K78761	*	●	●
Chicony ADLX65CCGK2A 20V3.25A adapter	5A10K78757	*	●	●
Chicony ADLX65CCGI2A 20V3.25A adapter	5A10K78760	*	●	●
Chicony ADLX65CCGR2A 20V3.25A adapter	5A10K78747	*	●	●
Chicony ADLX65CCGA2A 20V3.25A adapter	5A10K78737	*	●	●
Chicony ADLX65CCGE2A 20V3.25A adapter	5A10K78751	*	●	●

Table 8. Parts list—AC adapters (continued)

FRU	P/N	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
Chicony ADLX65CCGB2A 20V3.25A adapter	5A10K78738	*	●	●
Delta ADLX65CDGC2A 20V3.25A COO	SA10M42764	*	●	●
Delta ADLX65CDGG2A 20V3.25A COO	SA10M42758	*	●	●
Delta ADLX65CDGU2A 20V3.25A COO	SA10M42765	*	●	●
Delta ADLX65CDGK2A 20V3.25A COO	SA10M42745	*	●	●
Delta ADLX65CDGI2A 20V3.25A COO	SA10M42796	*	●	●
Delta ADLX65CDGR2A 20V3.25A COO	SA10M42775	*	●	●
Delta ADLX65CDGA2A 20V3.25A COO	SA10M42718	*	●	●
Delta ADLX65CDGE2A 20V3.25A COO	SA10M42794	*	●	●
Delta ADLX65CDGB2A 20V3.25A COO	SA10M42769	*	●	●
Liteon ADLX65CLGC2A 20V3.25A COO	SA10M42791	*	●	●
Liteon ADLX65CLGG2A 20V3.25A COO	SA10M42714	*	●	●
Liteon ADLX65CLGU2A 20V3.25A COO	SA10M42725	*	●	●
Liteon ADLX65CLGK2A 20V3.25A COO	SA10M42531	*	●	●
Liteon ADLX65CLGI2A 20V3.25A COO	SA10M42753	*	●	●
Liteon ADLX65CLGR2A 20V3.25A COO	SA10M42738	*	●	●
Liteon ADLX65CLGA2A 20V3.25A COO	SA10M42793	*	●	●
Liteon ADLX65CLGE2A 20V3.25A COO	SA10M42740	*	●	●
Liteon ADLX65CLGB2A 20V3.25A COO	SA10M42817	*	●	●
Chicony ADLX65CCGC2A 20V3.25A COO	SA10M42805	*	●	●
Chicony ADLX65CCGG2A 20V3.25A COO	SA10M42815	*	●	●
Chicony ADLX65CCGU2A 20V3.25A COO	SA10M42762	*	●	●
Chicony ADLX65CCGK2A 20V3.25A COO	SA10M42735	*	●	●
Chicony ADLX65CCGI2A 20V3.25A COO	SA10M42751	*	●	●
Chicony ADLX65CCGR2A 20V3.25A COO	SA10M42704	*	●	●
Chicony ADLX65CCGA2A 20V3.25A COO	SA10M42766	*	●	●
Chicony ADLX65CCGE2A 20V3.25A COO	SA10M42760	*	●	●
Chicony ADLX65CCGB2A 20V3.25A COO	SA10M42707	*	●	●

Screws

Table 9. Parts list—Screws

FRU	P/N	CRU ID.	ideapad 320S-14IKB	ideapad 520S-14IKB
Screw Pack C 80X4	5S10N78363	N	●	
Screw Pack C 80X2	5S10N78647	N		●

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