

ideapad 720S-13IKB

ideapad 720S Touch-13IKB

ideapad 720S-13ARR

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 71.

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About this manual

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

ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR

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 an ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR 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 toolbox 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.

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

Safety inspection guide

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

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

Consider these conditions and the safety hazards they present:

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

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

Checklist:

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

Handling devices that are sensitive to electrostatic discharge

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

Notes:

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

When handling ESD-sensitive parts:

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

Note:

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

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

Grounding requirements

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

Safety notices: multilingual translations

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

Safety notice 1

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

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

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

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

Prima di accendere l'elaboratore dopo che é stata effettuata la sostituzione di una FRU, accertarsi che tutte le viti, le molle e tutte le 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 לפקד, לשלול או לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לשלול את הסוללה כנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה המומינה ברשימת החלקים המתאימה. שימוש בסוללה לא מתאימה עלול לגרום להצתה או התפוצצות של הסוללה.

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

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

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

Safety notice 3

DANGER

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

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

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

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

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

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

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

Safety notice 4

⚠ DANGER

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

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

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

סוללת הליתיום עלולה לגרום לשריפה, להתפוצצות או למוות בשות. אין לטעון אותה מחדש, לסלק את המחבר המקוטב שלה, לפרק אותה או לחמם אותה בטמפרטורה 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 המומינה ברשימת החלקים המתאימים. שימוש בסוללה אחרת עלול לגרום לשנת שריפה או התפוצצות.

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

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

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

Safety notice 5

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

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

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

אם מסך הנביש הנוזלי (LCD) נשבר והנוזל מתוך המסך בא במגע עם עיניכם או ידיכם, שטפו את האזורים הנגועים מיד במים במשך 15 דקות לפחות. מנו 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 中の液体が目に入ったり、手に触れたりした場合は、液体が触れた部分を少なくとも 15 分間洗い流してください。洗い流した後に、液体によって何らかの症状が現れた場合は、医師の治療を受けてください。

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

Safety notice 6

⚠ DANGER

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

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

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

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

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

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

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

Safety notice 7

⚠ DANGER

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

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

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

אף שהסוללות הראשיות הן בעלות מתח נמוך, סוללה מקוצרת או מוארזת 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 kontrol, úprav alebo iných vykonaní od iných výrobcov, ako je v tomto špecifikované, mohlo by mať za následok nebezpečenstvo vystavenia sa vyžiarovaniu.

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

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

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

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

⚠ DANGER

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

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

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

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

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

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

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

Открывая, берегитесь лазерного излучения.

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

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

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

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

Important service information

This chapter presents the following important service information:

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

Important:

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

<http://support.lenovo.com>.

Strategy for replacing FRUs

Before replacing parts:

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

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

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

1. Go to <http://support.lenovo.com>.
2. Enter the serial number or select a product or use Lenovo smart downloading.
3. Select the BIOS/Driver/Applications and download.
4. Follow the directions on the screen and install the necessary software.

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

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

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

Strategy for replacing a hard disk drive

Always try to run a low-level format before replacing a hard disk drive. This will cause all customer data on the hard disk to be lost. Make sure that the customer has a current backup of the data before performing this action.

Attention: The drive startup sequence in the computer you are servicing may have been changed. Be extremely careful during write operations such as copying, saving, or formatting. If you select an incorrect drive, data or programs can be overwritten.

Important notice for replacing a system board

Some components mounted on a system board are very sensitive. Improper handling can cause damage to those components, and may cause a system malfunction.

Attention: When handling a system board:

- Do not drop the system board or apply any excessive force to it.
- Avoid rough handling of any kind.
- Avoid bending the system board and hard pushing to prevent cracking at each BGA (Ball Grid Array) chipset.

Important information about replacing RoHS compliant FRUs

RoHS, The Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (2002/95/EC) is a European Union legal requirement affecting the global electronics industry. RoHS requirements must be implemented on Lenovo products placed on the market after June 2006. Products on the market before June 2006 are not required to have RoHS compliant parts. If the original FRU parts are non-compliant, replacement parts can also be non-compliant. In all cases if the original FRU parts are RoHS compliant, the replacement part must also be RoHS compliant.

Note: RoHS and non-RoHS FRU part numbers with the same fit and function are identified with unique FRU part numbers.

Lenovo plans to transit to RoHS compliance well before the implementation date and expects its suppliers to be ready to support Lenovo's requirements and schedule in the EU. Products sold in 2005 and 2006 will contain some RoHS compliant FRUs. The following statement pertains to these products and any product Lenovo produces containing RoHS compliant FRUs.

RoHS compliant FRUs have unique FRU part numbers. Before or after the RoHS implementation date, failed RoHS compliant parts must always be replaced with RoHS compliant ones, so only the FRUs identified as compliant in the system HMM or direct substitutions for those FRUs may be used.

Products marketed before June 2006		Products marketed after June 2006	
Current or original part	Replacement FRU	Current or original part	Replacement FRU
Non-RoHS	Can be Non-RoHS	Must be RoHS	Must be RoHS
Non-RoHS	Can be RoHS		
Non-RoHS	Can sub to RoHS		
RoHS	Must be RoHS		

Note: A direct substitution is a part with a different FRU part number that is automatically shipped by the distribution center at the time of the order.

General checkout

This chapter presents the following information:

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

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

Important notes:

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

What to do first

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

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

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

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

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

The following are not covered under warranty:

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

The following symptoms might indicate damage caused by nonwarranted activities:

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

Power system checkout

To verify a symptom, follow the steps below:

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

If you suspect a power problem, see the appropriate power supply checkout:

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

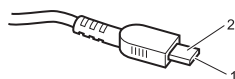
Checking the AC adapter

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

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

To check the AC adapter, follow the steps below:

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



Pin	Voltage (V DC)
1	+12
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 “ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR” on page 27.

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

Checking operational charging

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

// ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR Hardware Maintenance Manual

Perform operational charging. If the battery status indicator or icon is not lit, 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 is still not lit, replace the system board.

Related service information

This chapter presents the following information:

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

Restoring the factory contents by using OneKey Recovery

Restore of factory default

The Lenovo ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR computer comes with pre-installed OneKey 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 Lenovo OneKey Recovery System and run **System Recovery**. For details of OneKey Recovery System, see *the User Guide for Lenovo OneKey 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 supervisor 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.

Supervisor password

A supervisor password protects the system information stored in the BIOS. The user must enter the supervisor password to get access to the BIOS and change the system configuration.

Attention: If you forget the password, there is no service procedure to reset the password. The system board must be replaced for a scheduled fee.

Power management

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

To reduce power consumption, the computer has the following power management mode: sleep (standby).

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 and hold the Power key for about 1 to 4 seconds.
- Move the cursor to the lower-left corner, and then select the Start button. Select **Power**  → **Sleep**.

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

To wake up the computer, perform the following:

- Press any key on the keyboard.

Shutting down the computer

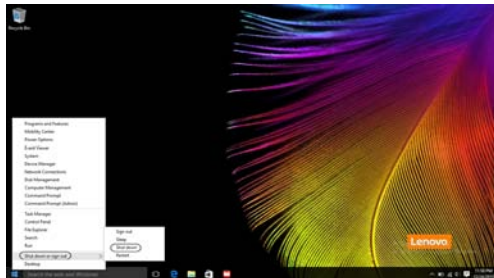
If you are not going to use your computer for a long time, shut it down.

To shut down your computer, do one of the following:

- Move the cursor to the lower-left corner, and then select the Start button. Select **Power**  → **Shut down**.



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



ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR

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

- “Specifications” on page 27
- “Status indicators” on page 29
- “Hotkeys” on page 30
- “FRU replacement notices” on page 31
- “Removing and replacing an FRU” on page 32
- “Locations” on page 54
- “Parts list” on page 56

Specifications

The following table lists the specifications of the ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR:

Table 1. Specifications

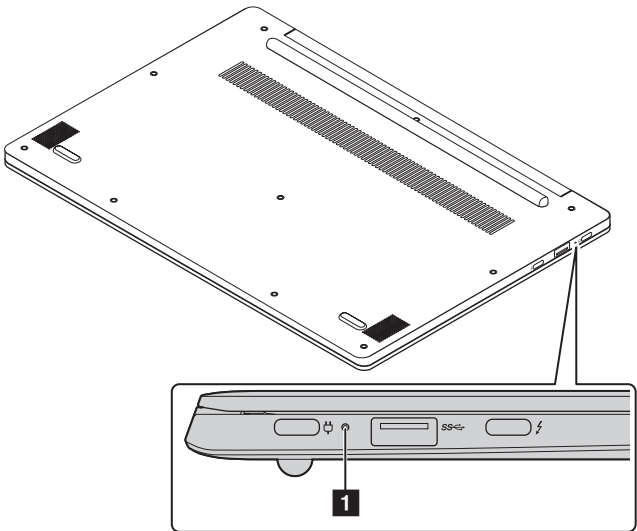
ideapad 720S-13IKB/ ideapad 720S-13ARR		ideapad 720S Touch-13IKB
Form Factor		
Dimensions	Appr. 305.9 mm × 213.8 mm × 13.6 mm	
Weight	Appr. 1.1 kg	Appr. 1.6 kg
LCD size	13.3-inch	
Processor		
See the system properties of your computer, you can do this as follows: Click Control Panel , then click Hardware and Sound , click Device Manager under Devices and Printers and double click Processors .		
Memory		
Type and speed	DDR4-2133 MHz	
Maximum supported capacity	8 GB	
SSD		
Capacity	128 GB/256 GB/512 GB/1 TB	
Interface	PCIe	

Table 1. Specifications (continued)

Display	
Display resolution (LCD)	16:9 (1,920 × 1,080 pixels FHD/3,840 × 2,160 pixels UHD)
LCD backlight	LED
I/O Ports	
USB	USB 3.0 port × 2
Audio	Combo audio jack × 1
Video/Audio	USB 3.1 Type-C (USB 3.1 & DP 1.2)
Battery pack	
Type	Li-ion battery pack
Cells/Capacity	4 Cells, 48 Wh
Note: The capacity given here is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).	
AC power adapter	
Input	100-240 V, 50-60 Hz
Output voltage	20 V DC
Power	45 W
Miscellaneous	
Camera	HD

Status indicators

The system status indicators below show the computer status:



■ Battery/Charging status indicator

Table 2. Status indicators

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

Hotkeys

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

Table 3. Hotkeys

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

FRU replacement notices

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

Screw notices

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

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

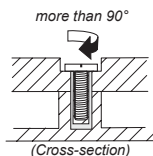
Do the following when you service this machine:

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

Tighten screws as follows:

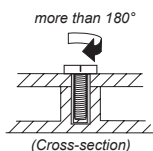
- **Plastic to plastic**

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



- **Logic card to plastic**

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



- **Torque driver**

If you have a torque screwdriver, refer to the "Torque" column for each step.

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

Removing and replacing an FRU

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

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review "FRU replacement notices" on page 31.
3. Begin by removing any FRUs that have to be removed before the failing FRU. Any of such FRUs are listed at the top of the page. Remove them in the order in which they are listed.
4. Follow the correct sequence in the steps to remove the FRU, as given in the figures by the numbers in square callouts.
5. When turning a screw to replace an FRU, turn it in the direction as given by the arrow in the figure.
6. When removing the FRU, move it in the direction as given by the arrow in the figure.
7. To put the new FRU in place, reverse the removal procedures and follow any of the notes that pertain to replacement. For information about connecting and arranging internal cables, see "Locations" on page 55.
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.

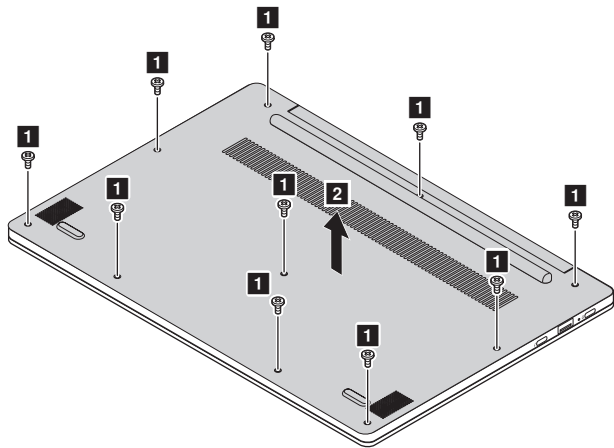
Attention: After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can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

1010 Base cover

Figure 1. Removal steps of base cover

Remove the screws 1. Then remove the base cover 2.



Step	Screw (quantity)	Color	Torque
■	M2 × 6 mm (10) Lower to Upper	champagne/ silver grey/ iron grey	2.0+/-0.25 kgf-cm

Note: Applying labels to the base cover

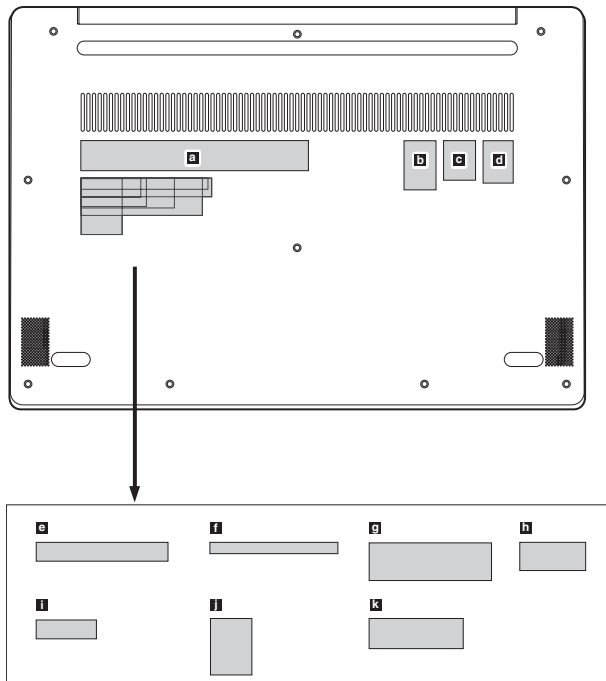
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following labels:

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

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

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

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



1020 Battery pack

For access, remove this FRU:

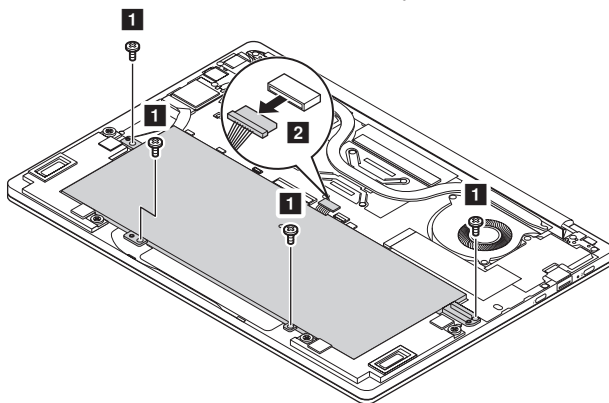
- “1010 Base cover” on page 33

⚠ DANGER

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

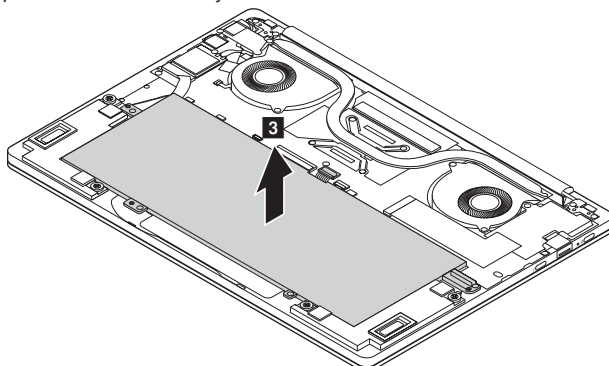
Figure 2. Removal steps of battery pack

Remove the screws **1**, then disconnect the battery connector **2**.



Step	Screw (quantity)	Color	Torque
1	M2 × 3.5 mm (4) Bty to Upper	Silver	2.0+/-0.25 kgf-cm

Lift up and remove the battery.



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

1030 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

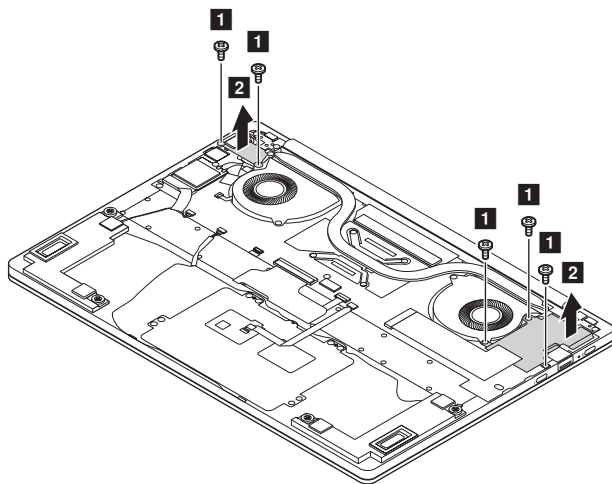
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35

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 “Overall” on page 57 for Lenovo part numbers for the approved modules.

Figure 3. Removal steps of PCI Express Mini Card for wireless LAN

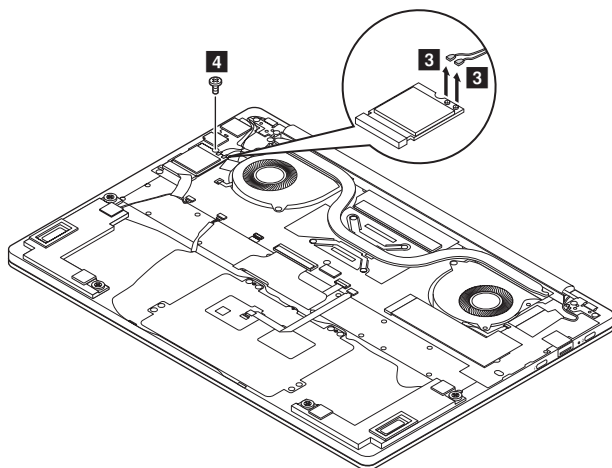
Remove the screws **1**. Then remove the shielding cover for PCI Express Mini Card and the shielding cover for eDP cable connector **2**.



Step	Screw (quantity)	Color	Torque
1	M2 × 3.5 mm (2) shield to Upper	Silver	2.0+/-0.25kgf-cm
2	M2 × 3.5 mm (3) shield to Upper	Silver	2.0+/-0.25kgf-cm

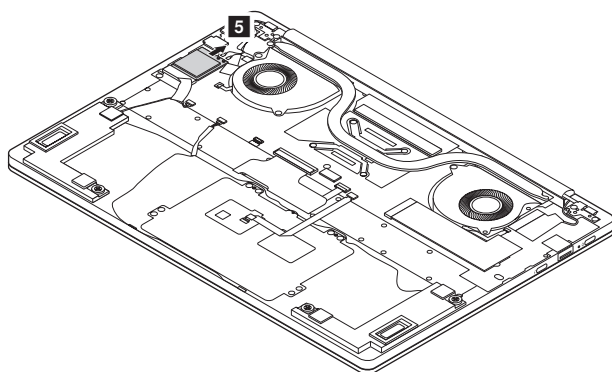
Figure 3. Removal steps of PCI Express Mini Card for wireless LAN (continued)

Disconnect the two wireless LAN cables (black, white) **3**, and then remove the screw **4**.



Step	Screw (quantity)	Color	Torque
4	M2 × 2.5 mm (1) WLAN card to Upper	Black	2.0+/-0.25kgf-cm

Remove the card in the direction shown by arrow **5**.



In step **3**, 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.

Figure 3. Removal steps of PCI Express Mini Card for wireless LAN (continued)

Notes: The wireless LAN card has 2 cables in step **3**.

The wireless LAN card in some models might have 3 cables in step **3**.

When installing:

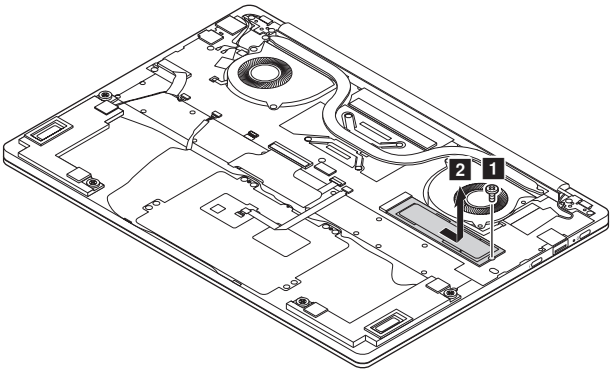
- In models with a wireless LAN card that has two antenna connectors, plug the black cable (1st) (MAIN) into the jack labeled 1, and the white cable (2nd) (AUX) into jack labeled 2 on the card.
- In models with a wireless LAN card that has three antenna connectors, plug the black cable (1st) (MAIN) into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

1040 SSD Card

- For access, remove these FRUs in order:
- “1010 Base cover” on page 33
 - “1020 Battery pack” on page 35
 - “1030 PCI Express Mini Card for wireless LAN” on page 36

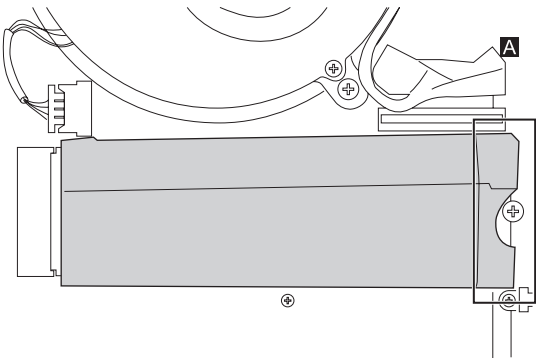
Figure 4. Removal steps of SSD Card

Remove the mylar of the SSD card. Remove the screw , and then remove the SSD card in the direction shown by arrow .



Step	Screw (quantity)	Color	Torque
	M2 × 2.5 mm (1) SSD card to Upper	Black	2.0+/-0.25kgf-cm

When installing: Make sure that the SSD mylar is attached to the SSD card as  shown below. Improper placement of the mylar might cause short circuit to the system board.



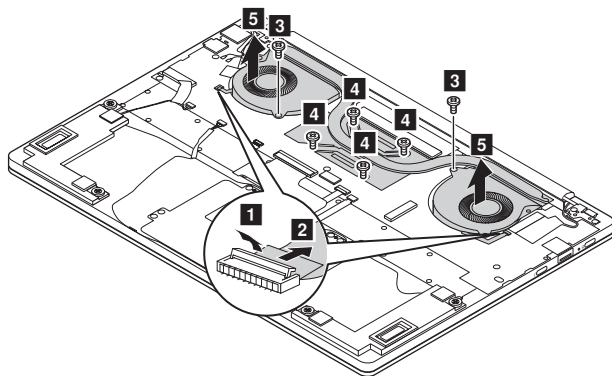
1050 Fan assembly and heat sink assembly

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39

Figure 5. Removal steps of fan assembly and heat sink assembly

Unplug the fan connectors in the directions shown by arrows **1**, **2**. Remove screws **3** and loosen screws **4**. Lift the fan assembly and heat sink assembly in the direction shown by arrows **5**. Be careful not to damage the connector.



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

Make sure that the connectors are attached firmly.

Step	Screw (quantity)	Color	Torque
3	M2 × 3.5 mm (2) Fan to Upper	Silver	2.0+/-0.25 kgf-cm

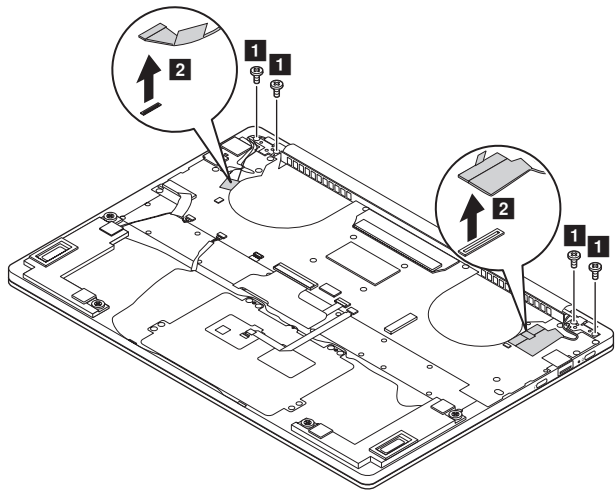
1060 LCD unit

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40

Figure 6. Removal steps of LCD unit

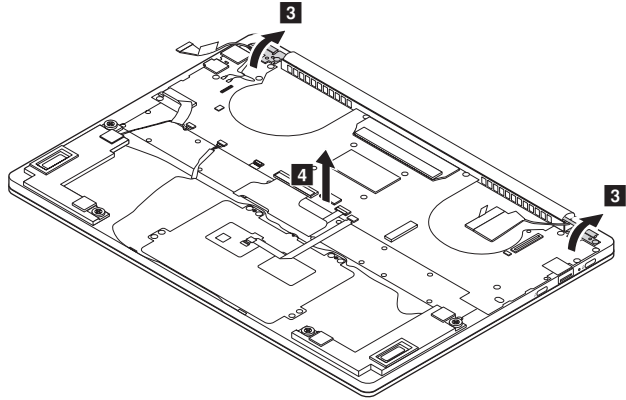
Remove the screws **■**. Disconnect the eDP connector and the camera cable connector in the direction shown by arrow **2**. Release the cables from the latches.



Step	Screw (quantity)	Color	Torque
■	M2 × 3.5 mm (4)	Silver	2.0+/-0.25 kgf-cm

Figure 6. Removal steps of LCD unit (continued)

Open the hinges **3**, then remove the upper case from the LCD unit in the direction shown by arrow **4**.



1070 System board

Important notices for handling the system board:

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

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

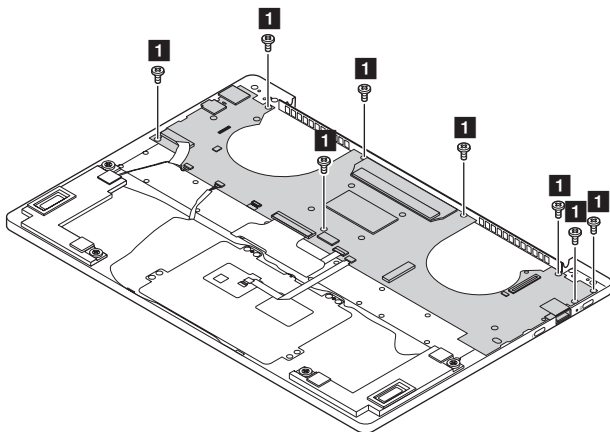
For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41

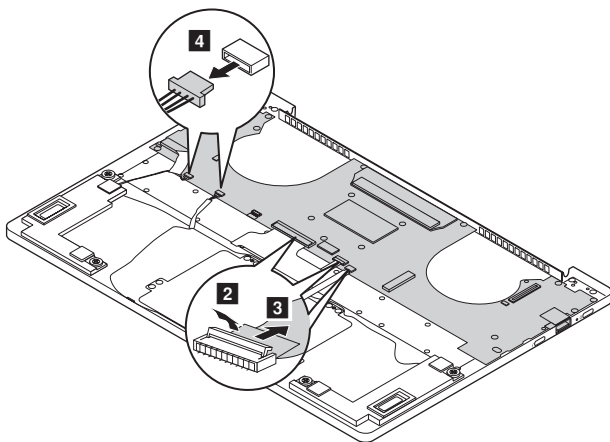
ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR Hardware Maintenance Manual

Figure 7. Removal steps of system board

Remove screws **1**.



Disconnect the keyboard cable connector, the keyboard backlight cable connector, and the touchpad cable connector **2**, **3**. Detach the speaker cable connector and the MIC cable connector **4**.

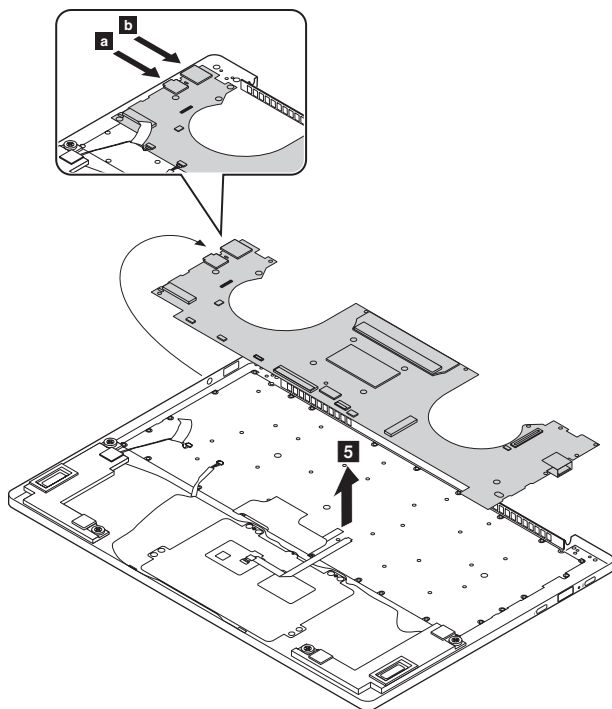


When installing: Make sure that all the connectors are attached firmly.

Step	Screw (quantity)	Color	Torque
1	M2 × 2.5 mm (8) MB to Upper	Black	2.0+/-0.25 kgf-cm

Figure 7. Removal steps of system board (continued)

Remove the system board in the direction shown by arrow **5**.



When installing: When attaching the system board to the base cover, adjust the placement of the USB, AC power adapter ports as shown in **a**, **b**, and make sure that they are attached to the holes on the base cover as shown. Improper placement of those jacks might cause a damage.

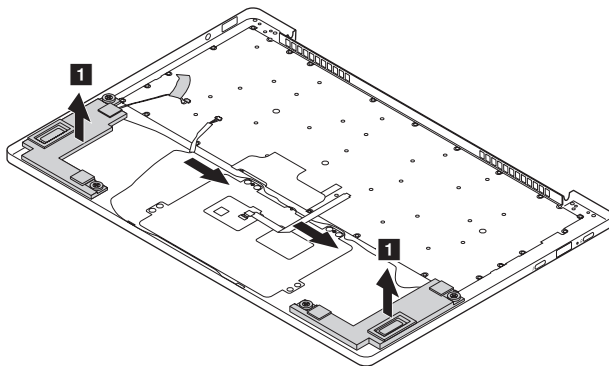
1080 Speakers

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41
- “1070 System board” on page 43

Figure 8. Removal steps of speakers

Release the cable from the hooks. Lift the speakers in the direction shown by arrows ■.



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

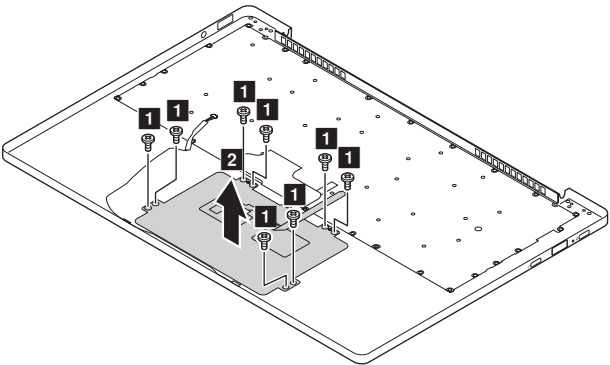
1090 Finger print board (on select models) and touchpad module

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41
- “1070 System board” on page 43
- “1080 Speakers” on page 46

Figure 9. Removal steps of finger print board (on select models) and touchpad module

Remove screws **1**, and then remove the touchpad module in the direction shown by arrow **2**.



Step	Screw (quantity)	Color	Torque
1	M2 × 2 mm (8)	Silver	2.0+/-0.25 kgf-cm

1100 LCD front bezel

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41
- “1070 System board” on page 43
- “1080 Speakers” on page 46
- “1090 Finger print board (on select models) and touchpad module” on page 47

Figure 10. Removal steps of LCD front bezel

Attention: When installing and removing the hinge fasteners, be careful of the force direction.

Remove the hinge cap in the direction shown by arrows ■.

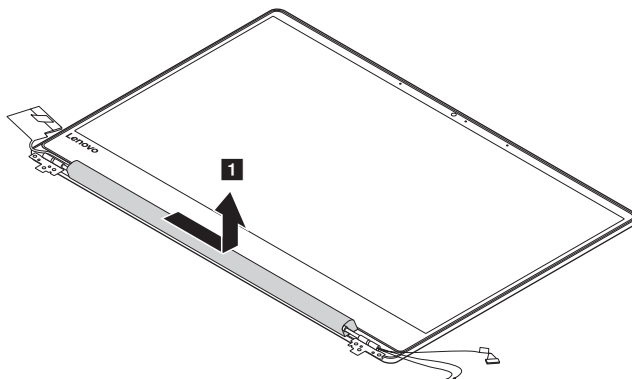
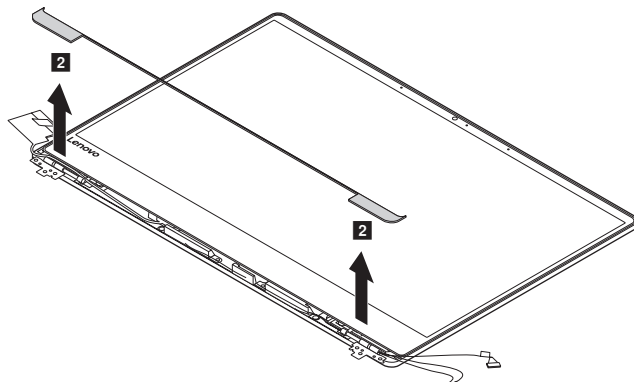
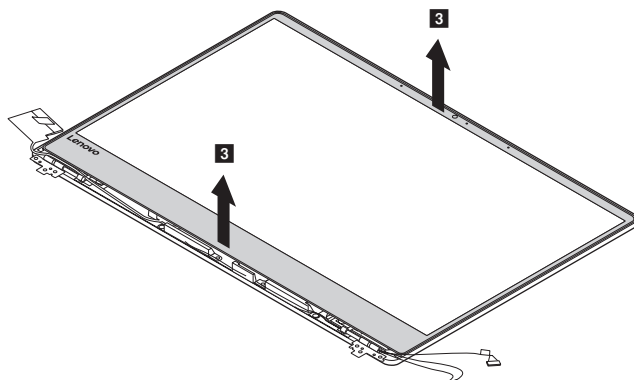


Figure 10. Removal steps of LCD front bezel (continued)

Remove the strip cover in the direction shown by arrow 2.



Remove the LCD front bezel as shown by arrows 3 (ideapad 720S-13IKB/ideapad 720S-13ARR only).



1110 LCD panel, LCD cable and hinges

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41
- “1070 System board” on page 43
- “1080 Speakers” on page 46
- “1090 Finger print board (on select models) and touchpad module” on page 47
- “1100 LCD front bezel” on page 48

Figure 11. Removal steps of LCD panel, LCD cable and hinges

ideapad 720S-13IKB/ideapad 720S-13ARR

Extract the easy-to-draw tape on left and right side of the LCD panel ■.

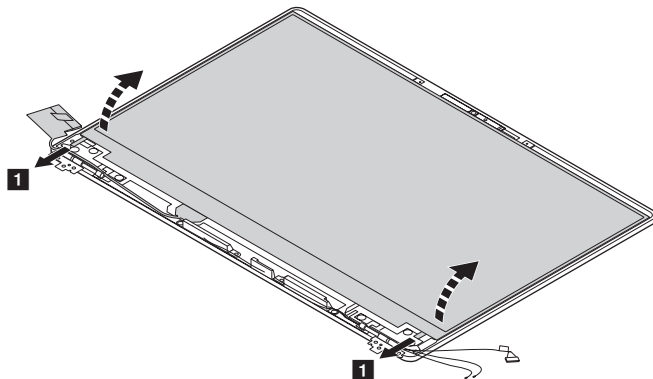
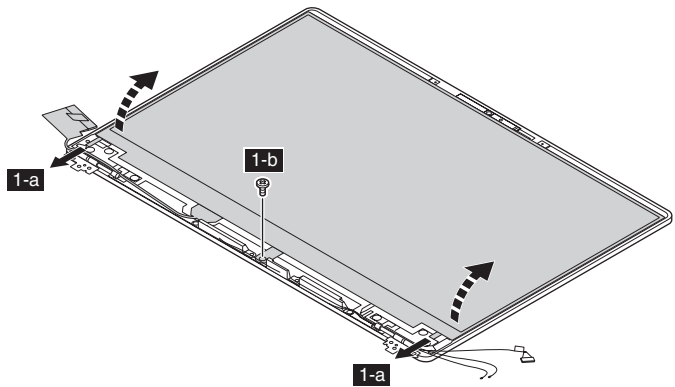


Figure 11. Removal steps of LCD panel, LCD cable and hinges (continued)

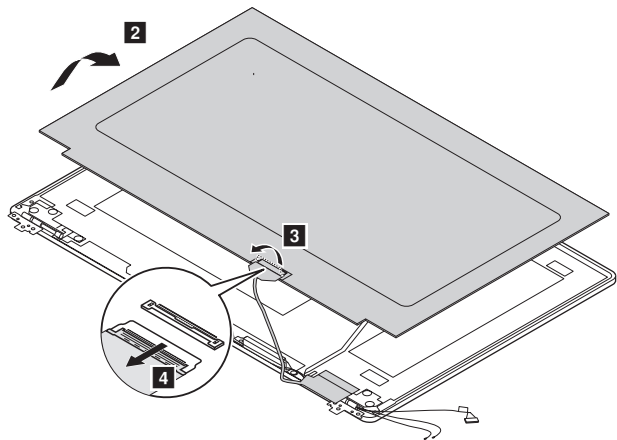
ideapad 720S Touch-13IKB

Extract the easy-to-draw tape on left and right side of the LCD panel **1-a**.
Remove the screw **1-b**.



Step	Screw (quantity)	Color	Torque
1-b	M1.6 × 2.5 mm (1) LCD panel to cover	Black	2.0+/-0.25kgf-cm

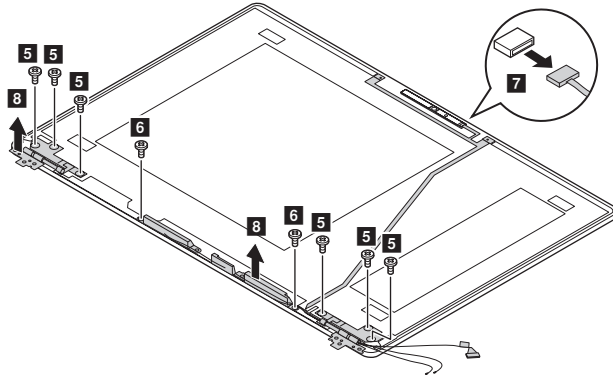
Turn over the LCD panel in the direction shown by arrow **2**. Disconnect the connector **3**, **4**.



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

Figure 11. Removal steps of LCD panel, LCD cable and hinges (continued)

Remove the screws **5**, **6**. Then disconnect the camera cable connector **7**. Remove the hinges, antenna assembly, and camera cable **8**.



Step	Screw (quantity)	Color	Torque
5	M2 × 1.8 mm (6)	Black	2.0+/-0.25 kgf-cm
6	M2 × 3.5 mm (2)	Silver	2.0+/-0.25 kgf-cm

1120 Integrated camera

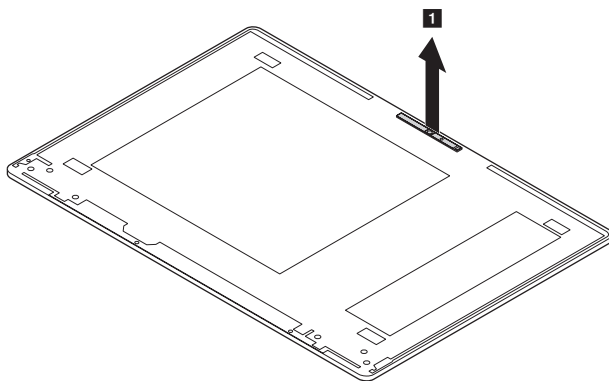
For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 35
- “1030 PCI Express Mini Card for wireless LAN” on page 36
- “1040 SSD Card” on page 39
- “1050 Fan assembly and heat sink assembly” on page 40
- “1060 LCD unit” on page 41
- “1070 System board” on page 43
- “1080 Speakers” on page 46
- “1090 Finger print board (on select models) and touchpad module” on page 47
- “1100 LCD front bezel” on page 48
- “1110 LCD panel, LCD cable and hinges” on page 50

Figure 12. Removal steps of integrated camera

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

Remove the integrated camera from the LCD cover in the direction shown by arrow .

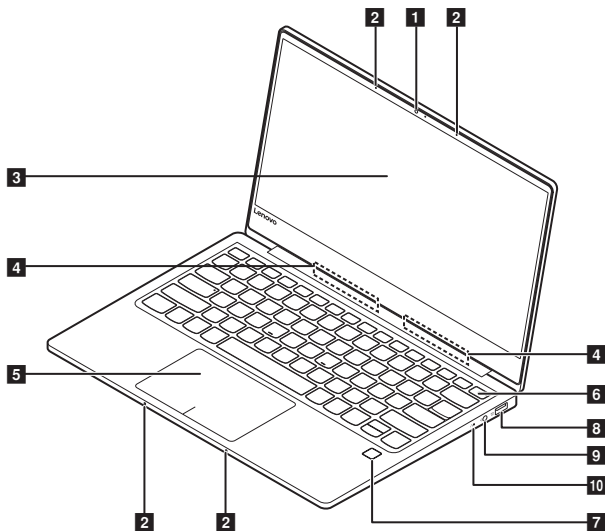


When installing: Stick the integrated camera to the top center of the LCD cover and adjust the placement of it to make sure the connector is attached firmly.

Locations

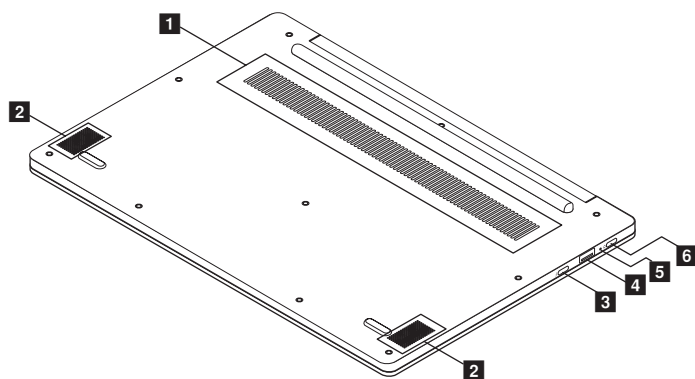
Front view and right-side view

- Integrated camera
- 2 Built-in microphone
- 3 Computer display
- 4 Wireless LAN antennas
- 5 Touch pad
- 6 Power Key
- 7 Fingerprint reader (on select models)
- 8 USB 3.0 port
- 9 Combo audio jack
- 10 Novo button



Bottom and Left-side view

- Ventilation slots
- 2 Speakers
- 3 Type-C port
- 4 USB 3.0 port
- 5 Battery/Charging status indicator
- 6 AC power adapter jack



Parts list

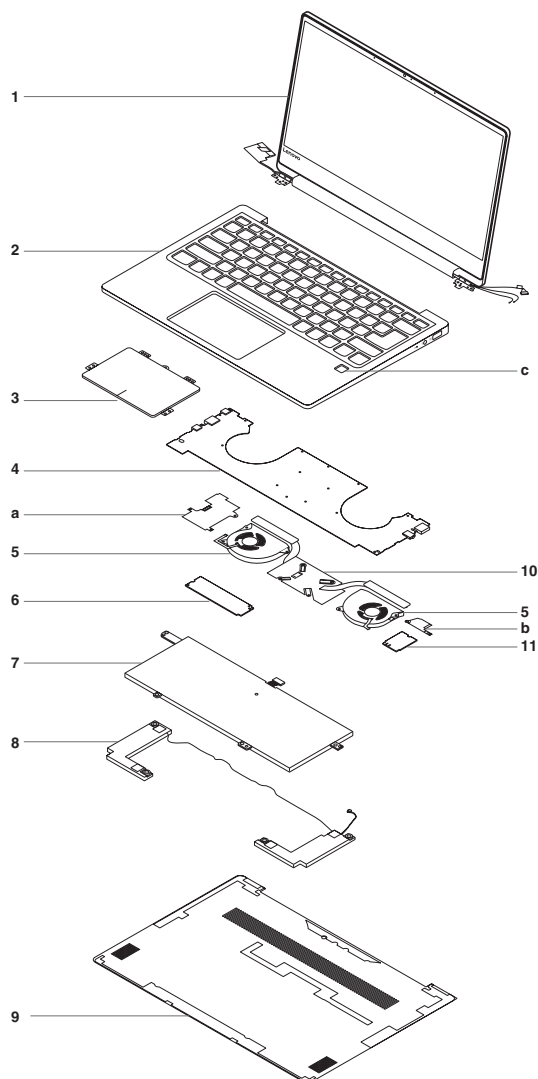
This section presents the following service parts:

- “Overall” on page 57
- “LCD FRUs” on page 66
- “Miscellaneous parts” on page 68
- “Screw” on page 68
- “AC adapters” on page 69
- “Powercord” on page 69

Notes:

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

Overall



ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR Hardware Maintenance Manual

Table 4. Parts list—Overall

No.	FRU	FRU no.	CRU ID.
a-c	See "Miscellaneous parts" on page 68.		
1	LCD unit (see "LCD FRUs" on page 66.)		
2	Upper Case L 81A8 CHAM FPBLW/KBUS	5CB0P19095	N
2	Upper Case L 81A8 CHAM FPBLW/KBGK	5CB0P19113	N
2	UpperCaseL81A8CHAMFPBLW/KBUSINT'E	5CB0P18990	N
2	Upper Case L 81A8 CHAM FPBLW/KBKO	5CB0P19051	N
2	Upper Case L 81A8 CHAM FPBLW/KBCH	5CB0P19061	N
2	Upper Case L 81A8 CHAM FPBLW/KBRU	5CB0P19031	N
2	Upper Case L 81A8CHAMFPBLW/KBAR-E	5CB0P18910	N
2	Upper Case L 81A8 CHAM FPBLW/KBHB	5CB0P19048	N
2	Upper Case L 81A8 CHAM FPBLW/KBTI	5CB0P19151	N
2	Upper case L81A8CHAMFPBLW/KBINDIA	5CB0P18874	N
2	Upper Case L 81A8 CHAMFPBLW/KBUKR	5CB0P19083	N
2	Upper Case L 81A8 CHAM FPBLW/KBUK	5CB0P18922	N
2	Upper Case L 81A8 CHAM FPBLW/KBIT	5CB0P18931	N
2	Upper Case L 81A8 CHAM FPBLW/KBSP	5CB0P19008	N
2	Upper Case L 81A8 CHAM FPBLW/KBTR	5CB0P19026	N
2	Upper Case L 81A8 CHAM FPBLW/KBPO	5CB0P19010	N
2	Upper Case L 81A8 CHAM FPBLW/KBLA	5CB0P19079	N
2	Upper Case L 81A8CHAMFPBLW/KBCF-E	5CB0P18886	N
2	Upper Case L 81A8 CHAM FPBLW/KBND	5CB0P18916	N
2	Upper Case L 81A8 CHAM FPBLW/KBFR	5CB0P18943	N
2	Upper Case L 81A8 CHAM FPBLW/KBGR	5CB0P18997	N
2	Upper Case L 81A8 CHAM FPBLW/KBNL	5CB0P19112	N
2	Upper Case L 81A8 CHAM FPBLW/KBHG	5CB0P19022	N
2	Upper Case L 81A8 CHAM FPBLW/KBBE	5CB0P19006	N
2	Upper Case L 81A8 CHAMFPBLW/KBICE	5CB0P18906	N
2	Upper Case L 81A8 CHAM FPBLW/KBSA	5CB0P18965	N
2	Upper Case L 81A8 CHAM FPBLW/KBSW	5CB0P18895	N
2	Upper Case L 81A8 CHAM FPBLW/KBBU	5CB0P19055	N
2	Upper case L81A8CHAMFPBLW/KBCZ-SK	5CB0P19058	N
2	Upper Case L 81A8 CHAM FPBLW/KBBZ	5CB0P18854	N
2	Upper case L81A8CHAMFPBLW/KBFR-AR	5CB0P18986	N
2	Upper Case L 81A8 CHAM FPBLW/KBJA	5CB0P19119	N
2	Upper Case L 81A8 CHAMFPBLW/KBUSA	5CB0P18981	N
2	Upper Case L 81A8 CHAMNFPBLW/KBUS	5CB0P19100	N
2	Upper Case L 81A8 CHAMNFPBLW/KBGK	5CB0P18972	N
2	UpperCaseL81A8CHAMNFPBLW/KBUSINT'E	5CB0P19103	N
2	Upper Case L 81A8 CHAMNFPBLW/KBKO	5CB0P19093	N
2	Upper Case L 81A8 CHAMNFPBLW/KBCH	5CB0P19004	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Upper Case L 81A8 CHAMNFPBLW/KBRU	5CB0P18936	N
2	Upper case L81A8CHAMNFPBLW/KBAR-E	5CB0P18989	N
2	Upper Case L 81A8 CHAMNFPBLW/KBHB	5CB0P19064	N
2	Upper Case L 81A8 CHAMNFPBLW/KBTI	5CB0P18927	N
2	Upper CaseL81A8CHAMNFPBLW/KBINDIA	5CB0P18913	N
2	Upper Case L 81A8CHAMNFPBLW/KBUKR	5CB0P19066	N
2	Upper Case L 81A8 CHAMNFPBLW/KBUK	5CB0P19107	N
2	Upper Case L 81A8 CHAMNFPBLW/KBIT	5CB0P18953	N
2	Upper Case L 81A8 CHAMNFPBLW/KBSP	5CB0P19131	N
2	Upper Case L 81A8 CHAMNFPBLW/KBTR	5CB0P18937	N
2	Upper Case L 81A8 CHAMNFPBLW/KBPO	5CB0P18975	N
2	Upper Case L 81A8 CHAMNFPBLW/KBLA	5CB0P18928	N
2	Upper case L81A8CHAMNFPBLW/KBCF-E	5CB0P19156	N
2	Upper Case L 81A8 CHAMNFPBLW/KBND	5CB0P18901	N
2	Upper Case L 81A8 CHAMNFPBLW/KBFR	5CB0P18859	N
2	Upper Case L 81A8 CHAMNFPBLW/KBGR	5CB0P18879	N
2	Upper Case L 81A8 CHAMNFPBLW/KBNL	5CB0P18923	N
2	Upper Case L 81A8 CHAMNFPBLW/KBHG	5CB0P19017	N
2	Upper Case L 81A8 CHAMNFPBLW/KBBE	5CB0P18880	N
2	Upper Case L 81A8CHAMNFPBLW/KBICE	5CB0P18966	N
2	Upper Case L 81A8 CHAMNFPBLW/KBSA	5CB0P19089	N
2	Upper Case L 81A8 CHAMNFPBLW/KBSW	5CB0P18947	N
2	Upper Case L 81A8 CHAMNFPBLW/KBBU	5CB0P18938	N
2	Upper CaseL81A8CHAMNFPBLW/KBCZ-SK	5CB0P18930	N
2	Upper Case L 81A8 CHAMNFPBLW/KBBZ	5CB0P18998	N
2	Upper CaseL81A8CHAMNFPBLW/KBFR-AR	5CB0P19009	N
2	Upper Case L 81A8 CHAMNFPBLW/KBJA	5CB0P18857	N
2	Upper Case L 81A8CHAMNFPBLW/KBUSA	5CB0P18992	N
2	Upper Case L 81A8 IG FP BL W/KB US	5CB0P19030	N
2	Upper Case L 81A8 IG FP BL W/KB GK	5CB0P18994	N
2	Upper Case L81A8IGFPBLW/KBUSINT'E	5CB0P18873	N
2	Upper Case L 81A8 IG FP BL W/KB KO	5CB0P19154	N
2	Upper Case L 81A8 IG FP BL W/KB CH	5CB0P19115	N
2	Upper Case L 81A8 IG FP BL W/KB RU	5CB0P18924	N
2	Upper Case L 81A8 IG FPBLW/KBAR-E	5CB0P19132	N
2	Upper Case L 81A8 IG FP BL W/KB HB	5CB0P19076	N
2	Upper Case L 81A8 IG FP BL W/KB TI	5CB0P18851	N
2	Upper Case L 81A8 IGFPBLW/KBINDIA	5CB0P19086	N
2	Upper Case L 81A8 IG FP BLW/KBUKR	5CB0P18852	N
2	Upper Case L 81A8 IG FP BL W/KB UK	5CB0P19111	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Upper Case L 81A8 IG FP BL W/KB IT	5CB0P18962	N
2	Upper Case L 81A8 IG FP BL W/KB SP	5CB0P18933	N
2	Upper Case L 81A8 IG FP BL W/KB TR	5CB0P18898	N
2	Upper Case L 81A8 IG FP BL W/KB PO	5CB0P19000	N
2	Upper Case L 81A8 IG FP BL W/KB LA	5CB0P19081	N
2	Upper Case L 81A8 IG FPBLW/KBCF-E	5CB0P18863	N
2	Upper Case L 81A8 IG FP BL W/KB ND	5CB0P18907	N
2	Upper Case L 81A8 IG FP BL W/KB FR	5CB0P19133	N
2	Upper Case L 81A8 IG FP BL W/KB GR	5CB0P19125	N
2	Upper Case L 81A8 IG FP BL W/KB NL	5CB0P18944	N
2	Upper Case L 81A8 IG FP BL W/KB HG	5CB0P18969	N
2	Upper Case L 81A8 IG FP BL W/KB BE	5CB0P18899	N
2	Upper Case L 81A8 IG FP BLW/KBICE	5CB0P19007	N
2	Upper Case L 81A8 IG FP BL W/KB SA	5CB0P19067	N
2	Upper Case L 81A8 IG FP BL W/KB SW	5CB0P18904	N
2	Upper Case L 81A8 IG FP BL W/KB BU	5CB0P18993	N
2	Upper Case L 81A8 IGFPBLW/KBCZ-SK	5CB0P18918	N
2	Upper Case L 81A8 IG FP BL W/KB BZ	5CB0P18970	N
2	Upper Case L 81A8 IGFPBLW/KBFR-AR	5CB0P18905	N
2	Upper Case L 81A8 IG FP BL W/KB JA	5CB0P18881	N
2	Upper Case L 81A8 IG FP BLW/KBUS	5CB0P19127	N
2	Upper Case L 81A8 IG NFP BLW/KBUS	5CB0P19043	N
2	Upper Case L 81A8 IG NFP BLW/KBGK	5CB0P18978	N
2	Upper Case L 81A8 IG NFP BLW/KBUSINT'E	5CB0P18996	N
2	Upper Case L 81A8 IG NFP BLW/KBKO	5CB0P19155	N
2	Upper Case L 81A8 IG NFP BLW/KBCH	5CB0P18982	N
2	Upper Case L 81A8 IG NFP BLW/KBRU	5CB0P18869	N
2	Upper Case L 81A8 IG NFP BLW/KBAR-E	5CB0P19002	N
2	Upper Case L 81A8 IG NFP BLW/KBHB	5CB0P18867	N
2	Upper Case L 81A8 IG NFP BLW/KBTI	5CB0P18894	N
2	Upper Case L 81A8 IG NFP BLW/KBINDIA	5CB0P19069	N
2	Upper Case L 81A8 IG NFP BLW/KBUKR	5CB0P19118	N
2	Upper Case L 81A8 IG NFP BLW/KBUK	5CB0P18957	N
2	Upper Case L 81A8 IG NFP BLW/KBIT	5CB0P18921	N
2	Upper Case L 81A8 IG NFP BLW/KBSP	5CB0P19108	N
2	Upper Case L 81A8 IG NFP BLW/KBTR	5CB0P18983	N
2	Upper Case L 81A8 IG NFP BLW/KBPO	5CB0P19134	N
2	Upper Case L 81A8 IG NFP BLW/KBLA	5CB0P18870	N
2	Upper Case L 81A8 IG NFP BLW/KBCF-E	5CB0P19062	N
2	Upper Case L 81A8 IG NFP BLW/KBND	5CB0P18872	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Upper Case L 81A8 IG NFP BLW/KBFR	5CB0P19047	N
2	Upper Case L 81A8 IG NFP BLW/KBGR	5CB0P18917	N
2	Upper Case L 81A8 IG NFP BLW/KBNL	5CB0P19099	N
2	Upper Case L 81A8 IG NFP BLW/KBHG	5CB0P19120	N
2	Upper Case L 81A8 IG NFP BLW/KBBE	5CB0P18958	N
2	Upper Case L 81A8 IG NFPBLW/KBICE	5CB0P18960	N
2	Upper Case L 81A8 IG NFP BLW/KBSA	5CB0P18909	N
2	Upper Case L 81A8 IG NFP BLW/KBSW	5CB0P18915	N
2	Upper Case L 81A8 IG NFP BLW/KBBU	5CB0P19014	N
2	Upper Case L 81A8IGNFPBLW/KBCZ-SK	5CB0P18896	N
2	Upper Case L 81A8 IG NFP BLW/KBBZ	5CB0P19075	N
2	Upper Case L 81A8IGNFPBLW/KBFR-AR	5CB0P19150	N
2	Upper Case L 81A8 IG NFP BLW/KBJA	5CB0P19046	N
2	Upper Case L 81A8 IG NFPBLW/KBUSA	5CB0P18853	N
2	Upper Case L 81A8 PTN FP BLW/KBUS	5CB0P19121	N
2	Upper Case L 81A8 PTN FP BLW/KBGK	5CB0P18956	N
2	Upper Case L 81A8PTNFPBLW/KBUSINT'E	5CB0P18900	N
2	Upper Case L 81A8 PTN FP BLW/KBKO	5CB0P18985	N
2	Upper Case L 81A8 PTN FP BLW/KBCH	5CB0P18988	N
2	Upper Case L 81A8 PTN FP BLW/KBRU	5CB0P19158	N
2	Upper Case L 81A8 PTNFPBLW/KBAR-E	5CB0P18866	N
2	Upper Case L 81A8 PTN FP BLW/KBHB	5CB0P18868	N
2	Upper Case L 81A8 PTN FP BLW/KBTI	5CB0P19054	N
2	Upper Case L 81A8PTNFPBLW/KBINDIA	5CB0P19141	N
2	Upper Case L 81A8 PTN FPBLW/KBUKR	5CB0P19068	N
2	Upper Case L 81A8 PTN FP BLW/KBUK	5CB0P18961	N
2	Upper Case L 81A8 PTN FP BLW/KBIT	5CB0P18882	N
2	Upper Case L 81A8 PTN FP BLW/KBSP	5CB0P18971	N
2	Upper Case L 81A8 PTN FP BLW/KBTR	5CB0P18878	N
2	Upper Case L 81A8 PTN FP BLW/KBPO	5CB0P19060	N
2	Upper Case L 81A8 PTN FP BLW/KBLA	5CB0P18964	N
2	Upper Case L 81A8 PTNFPBLW/KBCF-E	5CB0P19077	N
2	Upper Case L 81A8 PTN FP BLW/KBND	5CB0P18991	N
2	Upper Case L 81A8 PTN FP BLW/KBFR	5CB0P19088	N
2	Upper Case L 81A8 PTN FP BLW/KBGR	5CB0P19073	N
2	Upper Case L 81A8 PTN FP BLW/KBNL	5CB0P19023	N
2	Upper Case L 81A8 PTN FP BLW/KBHG	5CB0P19059	N
2	Upper Case L 81A8 PTN FP BLW/KBBE	5CB0P18955	N
2	Upper Case L 81A8 PTN FPBLW/KBICE	5CB0P18963	N
2	Upper Case L 81A8 PTN FP BLW/KBSA	5CB0P18935	N

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Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Upper Case L 81A8 PTN FP BLW/KBSW	5CB0P19091	N
2	Upper Case L 81A8 PTN FP BLW/KBBU	5CB0P18865	N
2	Upper Case L 81A8PTNFPBLW/KBCZ-SK	5CB0P19033	N
2	Upper Case L 81A8 PTN FP BLW/KBBZ	5CB0P19117	N
2	Upper Case L 81A8PTNFPBLW/KBFR-AR	5CB0P19101	N
2	Upper Case L 81A8 PTN FP BLW/KBJA	5CB0P19087	N
2	Upper Case L 81A8 PTN FPBLW/KBUSA	5CB0P19020	N
2	Upper Case L 81A8 PTN NFPBLW/KBUS	5CB0P18860	N
2	Upper Case L 81A8 PTN NFPBLW/KBGK	5CB0P19104	N
2	UpperCaseL81A8PTNNFPBLW/KBUSINT'E	5CB0P18892	N
2	Upper Case L 81A8 PTN NFPBLW/KBKO	5CB0P19018	N
2	Upper Case L 81A8 PTN NFPBLW/KBCH	5CB0P19109	N
2	Upper Case L 81A8 PTN NFPBLW/KBRU	5CB0P19027	N
2	Upper Case L 81A8PTNNFPBLW/KBAR-E	5CB0P19001	N
2	Upper Case L 81A8 PTN NFPBLW/KBHB	5CB0P19148	N
2	Upper Case L 81A8 PTN NFPBLW/KBTI	5CB0P19094	N
2	Upper case L81A8PTNNFPBLW/KBINDIA	5CB0P18979	N
2	Upper Case L 81A8 PTNNFPBLW/KBUKR	5CB0P18920	N
2	Upper Case L 81A8 PTN NFPBLW/KBUK	5CB0P19098	N
2	Upper Case L 81A8 PTN NFPBLW/KBIT	5CB0P18919	N
2	Upper Case L 81A8 PTN NFPBLW/KBSP	5CB0P19159	N
2	Upper Case L 81A8 PTN NFPBLW/KBTR	5CB0P18939	N
2	Upper Case L 81A8 PTN NFPBLW/KBPO	5CB0P18861	N
2	Upper Case L 81A8 PTN NFPBLW/KBLA	5CB0P18952	N
2	Upper Case L 81A8PTNNFPBLW/KBCF-E	5CB0P19128	N
2	Upper Case L 81A8 PTN NFPBLW/KBND	5CB0P19140	N
2	Upper Case L 81A8 PTN NFPBLW/KBFR	5CB0P19146	N
2	Upper Case L 81A8 PTN NFPBLW/KBGR	5CB0P19137	N
2	Upper Case L 81A8 PTN NFPBLW/KBNL	5CB0P19082	N
2	Upper Case L 81A8 PTN NFPBLW/KBHG	5CB0P19126	N
2	Upper Case L 81A8 PTN NFPBLW/KBBE	5CB0P18883	N
2	Upper Case L 81A8 PTNNFPBLW/KBICE	5CB0P18995	N
2	Upper Case L 81A8 PTN NFPBLW/KBSA	5CB0P19011	N
2	Upper Case L 81A8 PTN NFPBLW/KBSW	5CB0P19116	N
2	Upper Case L 81A8 PTN NFPBLW/KBBU	5CB0P19084	N
2	Upper case L81A8PTNNFPBLW/KBCZ-SK	5CB0P18864	N
2	Upper Case L 81A8 PTN NFPBLW/KBBZ	5CB0P19070	N
2	Upper case L81A8PTNNFPBLW/KBFR-AR	5CB0P18903	N
2	Upper Case L 81A8 PTN NFPBLW/KBJA	5CB0P18976	N
2	Upper Case L 81A8 PTNNFPBLW/KBUSA	5CB0P19063	N

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Upper Case L 81A8 RPK NFPBLW/KBUS	5CB0P18973	N
2	Upper Case L 81A8 RPK NFPBLW/KBGK	5CB0P19142	N
2	UpperCaseL81A8RPKNFPBLW/KBUSINT'E	5CB0P18888	N
2	Upper Case L 81A8 RPK NFPBLW/KBKO	5CB0P19053	N
2	Upper Case L 81A8 RPK NFPBLW/KBCH	5CB0P18875	N
2	Upper Case L 81A8 RPK NFPBLW/KBRU	5CB0P19005	N
2	Upper Case L 81A8RPKNFPBLW/KBAR-E	5CB0P19145	N
2	Upper Case L 81A8 RPK NFPBLW/KBHB	5CB0P19074	N
2	Upper Case L 81A8 RPK NFPBLW/KBTI	5CB0P18911	N
2	Upper case L81A8RPKNFPBLW/KBINDIA	5CB0P19139	N
2	Upper Case L 81A8 RPKNFPBLW/KBUKR	5CB0P18946	N
2	Upper Case L 81A8 RPK NFPBLW/KBUK	5CB0P19012	N
2	Upper Case L 81A8 RPK NFPBLW/KBIT	5CB0P18942	N
2	Upper Case L 81A8 RPK NFPBLW/KBSP	5CB0P18897	N
2	Upper Case L 81A8 RPK NFPBLW/KBTR	5CB0P19050	N
2	Upper Case L 81A8 RPK NFPBLW/KBPO	5CB0P18941	N
2	Upper Case L 81A8 RPK NFPBLW/KBLA	5CB0P19072	N
2	Upper Case L 81A8RPKNFPBLW/KBCF-E	5CB0P19105	N
2	Upper Case L 81A8 RPK NFPBLW/KBND	5CB0P19157	N
2	Upper Case L 81A8 RPK NFPBLW/KBFR	5CB0P19124	N
2	Upper Case L 81A8 RPK NFPBLW/KBGR	5CB0P18967	N
2	Upper Case L 81A8 RPK NFPBLW/KBNL	5CB0P18889	N
2	Upper Case L 81A8 RPK NFPBLW/KBHG	5CB0P19041	N
2	Upper Case L 81A8 RPK NFPBLW/KBBE	5CB0P18929	N
2	Upper Case L 81A8 RPKNFPBLW/KBICE	5CB0P18858	N
2	Upper Case L 81A8 RPK NFPBLW/KBSA	5CB0P19015	N
2	Upper Case L 81A8 RPK NFPBLW/KBSW	5CB0P18949	N
2	Upper Case L 81A8 RPK NFPBLW/KBBU	5CB0P19049	N
2	Upper case L81A8RPKNFPBLW/KBCZ-SK	5CB0P18954	N
2	Upper Case L 81A8 RPK NFPBLW/KBBZ	5CB0P18855	N
2	Upper case L81A8RPKNFPBLW/KBFR-AR	5CB0P19024	N
2	Upper Case L 81A8 RPK NFPBLW/KBJA	5CB0P19019	N
2	Upper Case L 81A8 RPKNFPBLW/KBUSA	5CB0P18959	N
3	TM-P3265-006 69x104x0.5 0.7 I2C	ST60N71862	N
3	SA469A-22H3 69x104x0.5 0.7 I2C	ST60M66707	N
4	MB L 80A8 NOKI37100UUMA4GFPFHD	5B20P19021	N
4	MB L 80A8 WINI37100UUMA4GFPFHD	5B20P18887	N
4	MB L 80A8 NOKI37100UUMA8GFPFHD	5B20P18912	N
4	MB L 80A8 WINI37100UUMA8GFPFHD	5B20P18890	N
4	MB L 81A8NOKI37100UUMA4GNFPFHD	5B20P18934	N

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Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
4	MB L 81A8WINI37100UUMA4GNFPFHD	5B20P19149	N
4	MB L 81A8NOKI37100UUMA8GNFPFHD	5B20P18885	N
4	MB L 81A8WINI37100UUMA8GNFPFHD	5B20P18945	N
4	MB L 80A8 NOKI57200UUMA4GFPFHD	5B20P18974	N
4	MB L 80A8 WINI57200UUMA4GFPFHD	5B20P19078	N
4	MB L 80A8 NOKI57200UUMA8GFPFHD	5B20P18932	N
4	MB L 80A8 WINI57200UUMA8GFPFHD	5B20P19071	N
4	MB L 81A8NOKI57200UUMA4GNFPFHD	5B20P19029	N
4	MB L 81A8WINI57200UUMA4GNFPFHD	5B20P18891	N
4	MB L 81A8NOKI57200UUMA8GNFPFHD	5B20P18862	N
4	MB L 81A8WINI57200UUMA8GNFPFHD	5B20P19032	N
4	MB L 80A8 NOKI77500UUMA4GFPFHD	5B20P19065	N
4	MB L 80A8 WINI77500UUMA4GFPFHD	5B20P18908	N
4	MB L 80A8 NOKI77500UUMA8GFPFHD	5B20P18877	N
4	MB L 80A8 WINI77500UUMA8GFPFHD	5B20P18926	N
4	MB L 81A8NOKI77500UUMA4GNFPFHD	5B20P19136	N
4	MB L 81A8WINI77500UUMA4GNFPFHD	5B20P18902	N
4	MB L 81A8NOKI77500UUMA8GNFPFHD	5B20P19016	N
4	MB L 81A8WINI77500UUMA8GNFPFHD	5B20P18940	N
4	MB L 80A8 NOKI37100UUMA4GFPUHD	5B20P19034	N
4	MB L 80A8 WINI37100UUMA4GFPUHD	5B20P18950	N
4	MB L 80A8 NOKI37100UUMA8GFPUHD	5B20P18951	N
4	MB L 80A8 WINI37100UUMA8GFPUHD	5B20P19013	N
4	MB L 81A8NOKI37100UUMA4GNFPUHD	5B20P18884	N
4	MB L 81A8WINI37100UUMA4GNFPUHD	5B20P19152	N
4	MB L 81A8NOKI37100UUMA8GNFPUHD	5B20P19092	N
4	MB L 81A8WINI37100UUMA8GNFPUHD	5B20P19045	N
4	MB L 80A8 NOKI57200UUMA4GFPUHD	5B20P19153	N
4	MB L 80A8 WINI57200UUMA4GFPUHD	5B20P19035	N
4	MB L 80A8 NOKI57200UUMA8GFPUHD	5B20P19096	N
4	MB L 80A8 WINI57200UUMA8GFPUHD	5B20P19042	N
4	MB L 81A8NOKI57200UUMA4GNFPUHD	5B20P18925	N
4	MB L 81A8WINI57200UUMA4GNFPUHD	5B20P18968	N
4	MB L 81A8NOKI57200UUMA8GNFPUHD	5B20P19143	N
4	MB L 81A8WINI57200UUMA8GNFPUHD	5B20P19040	N
4	MB L 80A8 NOKI77500UUMA4GFPUHD	5B20P19090	N
4	MB L 80A8 WINI77500UUMA4GFPUHD	5B20P19147	N
4	MB L 80A8 NOKI77500UUMA8GFPUHD	5B20P18856	N
4	MB L 80A8 WINI77500UUMA8GFPUHD	5B20P19122	N
4	MB L 81A8NOKI77500UUMA4GNFPUHD	5B20P19057	N

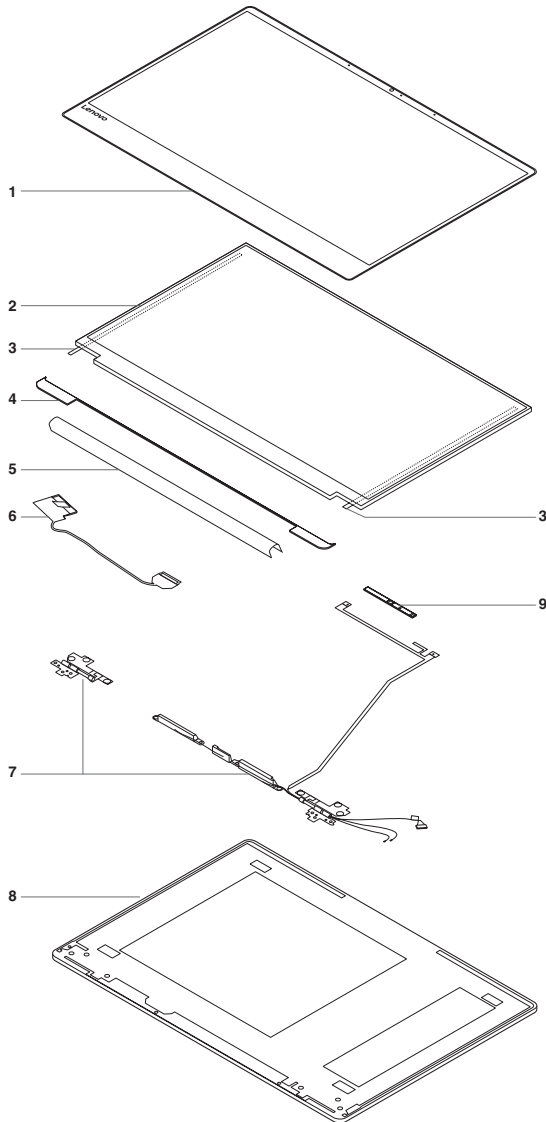
Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
4	MB L 81A8WINI77500UUMA4GNFPUHD	5B20P19123	N
4	MB L 81A8NOKI77500UUMA8GNFPUHD	5B20P19138	N
4	MB L 81A8WINI77500UUMA8GNFPUHD	5B20P19102	N
5	Fan L 81A8 R+L	5F10P19085	N
6	PM961 MZVLW128HEGR PCIE 128G SSD	5SD0L73445	N
6	TSB XG4 128G M.2 2280 PCIE SSD	5SD0M56301	N
6	PM961 MZVLW256HEHP PCIE 256G SSD	5SD0L73444	N
6	TSB XG4 256G M.2 2280 PCIE SSD	5SD0M56299	N
6	PM961 MZVLW512HMJP PCIE 512G SSD	5SD0L73443	N
6	TSB XG4 512G M.2 2280 PCIE SSD	5SD0M56300	N
6	MZVLW1T0HMLH-000L2 PCIE M.2 1TB SSD	5SD0L07883	N
7	720S CP/C L16C4PB3 7.68V48Wh4cell bty	5B10N00766	N
7	720S SP/A L16M4PB3 7.68V48Wh4cell bty	5B10N00765	N
7	720S LG L16L4PB3 7.72V48Wh4cell bty	5B10N03289	N
8	720S-13 RT6-V Speaker	5SB0N07678	N
8	720S-13 RT6-D Speaker	5SB0N07679	N
9	Lower Case L 81A8 Champagne	5CB0P19114	N
9	Lower Case L 81A8 Iron Grey	5CB0P19025	N
9	Lower Case L 81A8 Platinum	5CB0P19130	N
9	Lower Case L 81A8 Rose Pink	5CB0P19144	N
10	Heatsink L 81A8	5H40P19129	N
11	Intel 8265 2x2AC+BT PCIE M.2 WLAN NV	SW10K97453	N
11	Ltn NFA344A 2x2AC+BT4.x PCIE M.2 WLAN	SW10K97465	N
11	Ltn NFA344A 2x2AC+BT4.x PCIE M.2 WLAN (non-Intel)	SW10K97465	N
11	Intel 3165 1x1AC+BT PCIE M.2 WLAN	SW10H24486	N
11	Ltn NFA435A 1x1AC+BT4.0 PCIE M.2 WLAN	SW10K97461	N
11	Ltn NFA435A 1x1AC+BT4.0 PCIE M.2 WLAN (non-Intel)	SW10K97461	N

LCD FRUs

In Lenovo ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR, there is following type of LCD.

- “13.3 -in. HD TFT”



13.3-in. HD TFT

Table 5. Parts list—13.3-in. HD TFT

No.	FRU	FRU no.	CRU ID.
1	LCD Bezel Mylar L 81A8	5B30P18984	N
2	LG LP133WF4 SPB1 FHD I AG S NB	5D10K81089	N
2	IV M133NWF4 R0 FHD I AG S NB	5D10M42877	N
2	BO NV133FHM-N61 FHD I AG S NB	5D10M42884	N
2	AU B133ZAN01.1 0A UHDI AG S NB	5D10M42888	N
2	SR LQ133D1JX34 UHDI AG S NB	5D10M42887	N
2	LG LP133WF6-SPE1 FHD I G S NB(T)(ideapad 720S Touch-13IKB)	5D10N03457	N
2	SLC 133036AKM AI G 720S13 CG(ideapad 720S Touch-13IKB)	ST50N17978	N
2	SLCLG133FHD(T)133036AKF G CG(ideapad 720S Touch-13IKB)	ST50N17982	N
3	Removable Tape L 81A8	5T10P19135	N
4	Strip Cover L 81A8	5CB0P18876	N
5	Hinge Cover L 81A8 Champagne	5CB0P19110	N
5	Hinge Cover L 81A8 Iron Grey	5CB0P19036	N
5	Hinge Cover L 81A8 Platinum	5CB0P19056	N
5	Hinge Cover L 81A8 Rose Pink	5CB0P19037	N
6	LCD Cable L 81A8 FHD	5C10P19044	N
6	LCD Cable L 81A8 UHD	5C10P19003	N
7	HingeL81A8R+LW/Ant+Removable Tape	5H50P19028	N
8	LCD Cover L 81A8 Champagne	5CB0P19097	N
8	LCD Cover L 81A8 Iron Grey	5CB0P19106	N
8	LCD Cover L 81A8 Platinum	5CB0P19038	N
8	LCD Cover L 81A8 Rose Pink	5CB0P18999	N
9	Camera L 81A8 W/Removable Tape	5C20P18948	N
9	BIS BNG119VSN HD NB camera	SC20M52084	N
9	CCY CKFGH44 HD NB camera	SC20M52092	N
9	AVC HAA-8NC302 HD NB camera	SC20M52086	N

Miscellaneous parts

Table 6. Parts list—Miscellaneous parts

FRU	P/N	CRU ID.
System miscellaneous parts:		N
• (a) MB EMI Shielding L 81A8 Left	5S60P18871	
• (b) MB EMI Shielding L 81A8 Right	5S60P19052	
• (c) JYAA066A-Champagne	SF30M84263	
JYAA062A-Platinum Grey	SF30M82345	
JYAA063A-Iron Grey	SF30M82343	
MLE3M6-Champagne	SF30M97438	
MLE3M4-Platinum Gray	SF30M97440	
MLE3M3-Iron Gray	SF30M97437	
Note: Italicized letters in parentheses are references to the exploded view in "Overall" on page 57.		

Screw

Table 7. Parts list—screws

FRU	P/N	CRU ID.
Screw L 81A8 2.7L K 4.2D 0.3T ZK	5S10P19039	N
Screw L 81A8 1.8L K 6.5D 0.4T NL	5S10P18914	N
Screw L 81A8 6L T 3.5D 0.35T CHAM	5S10P19080	N
Screw L 81A8 6L K 3.5D 0.35T IG	5S10P18987	N
Screw L 81A8 6L K 3.5D 0.35T PTN	5S10P18893	N
Screw L 81A8 6L K 3.5D 0.35T RK	5S10P18980	N

AC adapters

Table 8. Parts list—AC adapters

FRU	P/N	CRU ID.
Chicony PD 3.0 USB-C 45W 3pin	SA10E75843	*
Liteon PD 3.0 USB-C 45W 3pin	SA10E75841	*
Delta PD 3.0 USB-C 45W 3pin	SA10E75839	*
Acbel PD 3.0 USB-C 45W 3pin	SA10E75845	*

Powercord

Table 9. Parts list—Powercord

FRU	P/N	CRU ID.
LINETEK PC323+RVV300/300+LS15 1m	145000600	*
LINETEK LS15+H03VV-F+LP39 1m	145000599	*
LINETEK LS15+H03VV-F+LP-37 1m	145000597	*
LINETEK LS15 H03VV-F LP26A 1m	145000596	*
LINETEK LS15+H03VV-F+LP-41 1m	145000595	*
LINETEK LP-30B + SPT-2 + LS15 1m	145000594	*
LINETEK LP-61L+ H03VV-F+ LS15 1m	145000593	*
LINETEK PE-361+ H05VV-F+ LS15 1m	145000592	*
LINETEK LS15+H03VV-F+PE-336 1m	145000591	*
LINETEK LS15+H05VV-F+LP-E04A 1m	145000590	*
LINETEK LS15+H03VV-F+LP-23A 1m	145000589	*
LINETEK LS15+VCTF+LP-53 1m	145000588	*
LINETEK LS15+VCTF+LP-54 1m	145000587	*
LINETEK LS15+H03VV-F+PE-364 1m	145000586	*
LINETEK LP-34+H03VV-F + LS15 1m	145000585	*
Longwell LSG-31+RVV300/300+LS-18 1m	145000568	*
Longwell LP-24+H03VV-F+LS-18 1m	145000567	*
Longwell LP-37+H03VV-F+LS-18 1m	145000565	*
Longwell LP-46+H03VV-F+LS-18 1m	145000564	*
Longwell LP-41+H03VV-F+LS-18 1m	145000563	*
Longwell LP-30B+SPT-2 18AWG+LS-18 1m	145000562	*
Longwell LP-61L+H03VV-F+LS-18 1m	145000561	*
Longwell LP-67+BIS+LS-18 1m	145000560	*
Longwell LP-22+H03VV-F+LS-18 1m	145000559	*
Longwell LP-486+KTLH03VV-F+LS-5 1m	145000558	*
Longwell LP-23A+LFC-3R+LS-18 1m	145000557	*
Longwell LP-71+VCTF+LS-33 1m	145000556	*
Longwell LP-54+VCTF+LS-18 1m	145000555	*

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Table 9. Parts list—Powercord (continued)

FRU	P/N	CRU ID.
Longwell LP-39+H03VV-F+LS-18 1m	145000554	*
Longwell LP-34A+H03VV-F+LS-18 1m	145000553	*
VOLEX GB10S3+RVV 300/500+VAC5S 1m	145000538	*
Volex US15S3+SPT-2 +VAC5S 1m	145000537	*
VOLEX MP5004+H03VV-F+VAC5S 1m	145000605	*
VOLEX MP232+H03VV-F+VAC5S 1m	145000524	*
VOLEX IT10S3+H03VV-F+VAC5S 1m	145000535	*
VOLEX M2511+KETI IEC+VAC5S 1m	145000533	*
VOLEX AU10S3+H03VV-F+VAC5S 1m	145000532	*
VOLEX TW15CS3+VCTF+VAC5S 1m	145000531	*
VOLEX VAC5S+VCTF+M755 1m	145000530	*
VOLEX VA2073+H03VV-F+VAC5S 1m	145000528	*
VOLEX CH10S3+H03VV-F+VAC5S 1m	145000527	*
VOLEX SI16S3+H03VV-F+VAC5S 1m	145000526	*
VOLEX M2511+H03VV-F+VAC5S 1m	145000525	*
lux 0036+RVV 300/300 0.75/3C+0002 1m	145500003	*
lux 0040+H03VV-F 0.75/3C+0011 1m	145500015	*
lux 0027+H03VV-F 0.75/3C+0011 1m	145500013	*
lux 0034+H03VV-F 0.75/3C+0011 1m	145500011	*
lux 0041+H03VV-F 0.75/3C+0011 1m	145500012	*
lux 0014+SPT-2 60°C 18/3C+0016 1m	145500002	*
lux 0014+H03VV-F 0.75/3C+0011 1m	5L60J33143	*
lux 0031+H03VV-F 0.75/3C+0011 1m	145500000	*
lux 0046+IS694 0.75/3C+0011 1m	145500004	*
lux 0029+H03VV-F 0.75/3C+0011 1m	145500009	*
lux 0033+H03VV-F 0.75/3C+0011 1m	145500008	*
lux 0038+H03VV-F 0.75/3C+0011 1m	145500006	*
lux 0019+VCTF 0.75/3C+0021 1m	145500007	*
lux 0018(E)+VCTF 0.75/3C+0021 1m	145500005	*
lux 0044+H03VV-F 0.75/3C+0011 1m	145500010	*
lux 0033+H03VV-F 0.75/3C+0011 1m	145500001	*

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