

Lenovo ideapad 720-15IKB
Hardware
Maintenance
Manual

Lenovo[™]

Note:

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

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Contents

About this manual	iv	1040 DIMM	40
Safety information	1	1050 Hard disk drive and SSD card	41
General safety	2	1060 Speakers	44
Electrical safety	3	1070 Fan and heat sink assembly	45
Safety inspection guide	5	1080 Upper case	48
Handling devices that are sensitive to electrostatic discharge	6	1090 I/O board, backup battery and fingerprint board	51
Grounding requirements	6	1100 System board and touch pad	55
Safety notices: multilingual translations	7	1110 LCD unit	58
Laser compliance statement	14	1120 Integrated camera and microphone assembly	63
Important service information	16	Locations	64
Strategy for replacing FRUs	16	Front view and right-side view	64
Strategy for replacing a hard disk drive	17	Bottom and Left-side view	65
Important notice for replacing a system board	17	Parts list	66
Important information about replacing RoHS compliant FRUs	18	Overall	67
		LCD FRUs	79
		Miscellaneous parts	81
		AC adapters	81
		Screws	81
		Power cord	81
General checkout	19	Notices	83
What to do first	20	Trademarks	84
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 OneKey Recovery	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	26		
Lenovo ideapad 720-15IKB	27		
Specifications	27		
Status indicators	29		
Hotkeys	30		
FRU replacement notices	31		
Screw notices	31		
Removing and replacing an FRU	32		
1010 Base cover	33		
1020 Battery pack	36		
1030 PCI Express Mini Card for wireless LAN	38		

About this manual

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

Lenovo ideapad 720-15IKB

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 720-15IKB computer:

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

General safety

Follow these rules below to ensure general safety:

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

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

Electrical safety

Observe the following rules when working on electrical equipments.

Important:

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

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

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

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

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

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

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

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

Safety inspection guide

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

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

Consider these conditions and the safety hazards they present:

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

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

Checklist:

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

Handling devices that are sensitive to electrostatic discharge

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

Notes:

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

When handling ESD-sensitive parts:

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

Note:

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

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

Grounding requirements

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

Safety notices: multilingual translations

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

Safety notice 1

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

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

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

לפני הפעלת המחשב לאחר החלפת FRU יש לוודא שכל הברגים, הקפיצים, וחלקים קטנים אחרים נמצאים במקומם ואינם חופשיים לזוז בתוך המחשב. כדי לוודא זאת, יש לטלטל את המחשב ולהקשיב לגילגולי 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 סוללות המתנה, לטעון אותה מחדש, להשליך אותה לאש או למים או לקצר אותה. יש לשלוק את הסוללה בנדרש על ידי התקנות והחוקים המקומיים. יש להשתמש רק בסוללה 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请使用してください。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, veuillez 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.

מאזו הסוללה מכיל כמות קטנה של ניקל וקדמיום. אין לפרק את מאזו הסוללה, להשליך אותו לאש או למים או לקצר אותו. יש לסלק את מאזו הסוללה הסוללה כנדרש על ידי התקנות החוקיים המקומיים. יש להשתמש רק בסוללה המוביעה ברשימת החלקים המתאימה בזמן החלפת מאזו 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 לפגיעות קשות. אין לטעון אותה מחדש, לנתק את המחבר המקוטב שלה, למרק אותה או לחמם אותה לטמפרטורה העולה על 100 מעלות צלזיוס. אין לשרוף את הסוללה ואין לחשוף את תוכן התא למים. יש לנתק את הסוללה כנדרש במקנות ובחוקים המקומיים. יש להשתמש רק בסוללה המומייעה ברשימת החלקים המתאימים. שימוש בסוללה אחרת עלול לגרום לטכנת 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°C (212°F) 以上への加熱、焼却、電池の中身を水に浸すことはしないでください。バッテリーを廃棄する場合は地方自治体の条例に従ってください。適切なパーツ・リストにあるバッテリーだけを使用してください。誤ったバッテリーを使用すると、バッテリーが発火したり、爆発したりすることがあります。

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

Safety notice 5

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

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

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

אם מסך הנביש 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 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 sintoma 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 מוארקות עלולה להפיק זרם מספיק לגרימת כוויות או להצתת חומרים דליקים.

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

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

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

Safety notice 8** DANGER**

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

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

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

לפני סילוק FRU כלשהו, יש לכבות את המחשב, לנתק את כל כבלי החשמל משקעי החשמל, להוציא את מארזי הסוללה, וזו 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・バックを外し、相互接続ケーブルを外してください。

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

Laser compliance statement

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

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

CAUTION

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

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

凡未在这里指明的任何控制用法、调整、行为，都会导致严重后果。

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

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

Az itt előírt eljárásoktól, beállításoktól és vezérlésektől eltérni a lézersugárzás veszélye miatt kockázatos!

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

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

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

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

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

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

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

⚠ DANGER

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

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

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

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

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

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

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

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

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

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

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

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

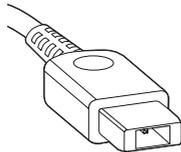
Checking the AC adapter

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	20V/2.25A
2	15V/3A
3	9V/2A
4	5V/2A

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

3. If the voltage is not correct, replace the AC adapter.
4. If the voltage is acceptable, do the following:
 - Replace the system board.
 - If the problem persists, go to “Lenovo ideapad 720-15IKB” on page 27.

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

Checking operational charging

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

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

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

Checking the battery pack

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

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

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

Related service information

This chapter presents the following information:

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

Restoring the factory contents by using OneKey Recovery

Restore of factory default

The Lenovo ideapad 720-15IKB computers come 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.

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

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

Passwords

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

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

Power-on password

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

Hard-disk password

There are two hard-disk passwords (HDPs):

+ User HDP - for the user

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

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

Administrator password

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

Power management

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

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

Putting the computer to sleep or shutting it down

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

Putting your computer to sleep

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

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

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

- Close the display lid.
- Press and hold the Power key for about 1 to 5 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.

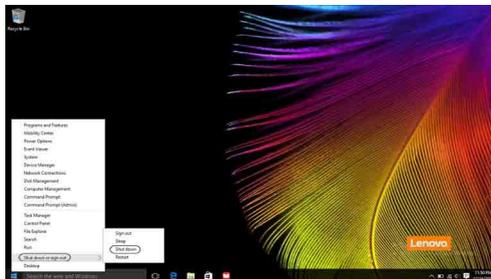
Shutting down the computer

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:

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



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



Lenovo ideapad 720-15IKB

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 64
- “Parts list” on page 66

Specifications

The following table lists the specifications of the Lenovo ideapad 720-15IKB:

Table 1. Specifications

Form Factor	
Dimensions	Appr. 362.5 mm × 255 mm × 21.7 mm
Weight	Appr. 2.1 kg with battery
LCD size	15.6-inch
Processor	
See the system properties of your computer, you can do this as follows: Click Control Panel , then click Hardware and Sound , click Device Manager under Devices and Printers and double click Processors .	
Memory	
Type and speed	DDR4-2133 MHz (on select models)
Maximum supported capacity	16 GB
Slots	SODIMM × 1, on board × 1
Hard disk drive	
Form factor	2.5-inch, 7 mm
Capacity	HDD: 1 TB/2 TB SSD: 128 GB/256 GB
Interface	SATA 3/PCIE

Table 1. Specifications (continued)

Display	
Display resolution (LCD)	16:9 (1,366 × 768/1,920 × 1,080 pixels)
LCD backlight	LED
I/O Ports	
USB	USB 3.0 × 2, Type-C × 1 (USB 3.0)
Audio	Combo audio jack × 1
Communication	RJ-45 × 1
Video/Audio	HDMI slot × 1
Memory card slot	4 in 1 slot × 1 (SD/SDHC/SDXC/MMC)
Battery pack	
Type	Polymer
Cells/Capacity	3 Cell/45 W
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	90 W
Miscellaneous	
Camera	HD
Security	Kensington security slot × 1

Status indicators

The system status indicators below show the computer status:

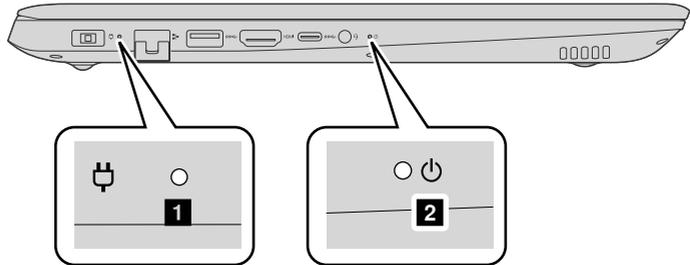


Table 2. Status indicators

1 Battery/Charging status indicator

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.

2 Power status indicator

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

Hotkeys

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

Table 3. Hotkeys

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

FRU replacement notices

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

Screw notices

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

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

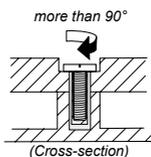
Do the following when you service this machine:

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

Tighten screws as follows:

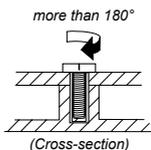
- **Plastic to plastic**

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



- **Logic card to plastic**

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



- **Torque driver**

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

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

Removing and replacing an FRU

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

1. Do not attempt to service any computer unless you have been trained and certified. An untrained person runs the risk of damaging parts.
2. Before replacing any FRU, review “FRU replacement notices” on page 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 64.
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.

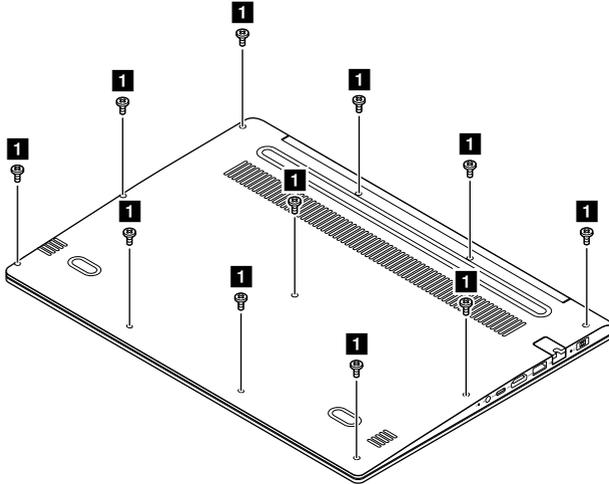
Attention: After replacing an FRU, do not turn on the computer until you have made sure that all screws, springs, and other small parts are in place and none are loose inside the computer. Verify this by shaking the computer gently and listening for rattling sounds. Metallic parts or metal flakes can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

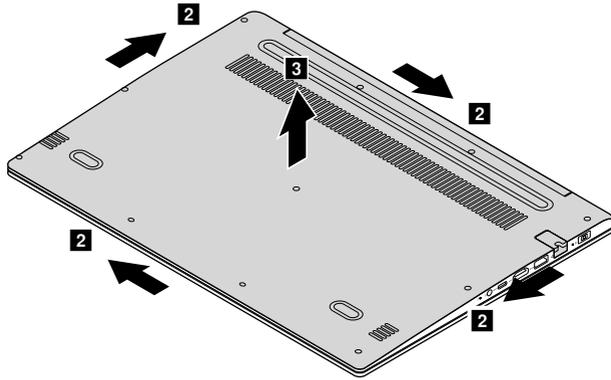
Remove the screws ■.



Step	Screw (quantity)	Color	Torque
■	M2 × 5 mm, Phillips-head (11)	Silver	1.7-2.2 kgf.cm

Figure 1. Removal steps of base cover (continued)

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



Note: Applying labels to the base cover

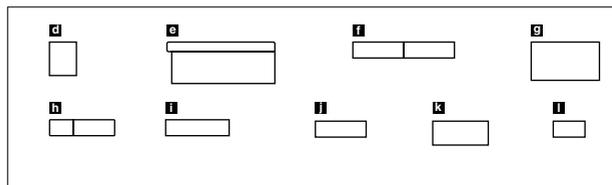
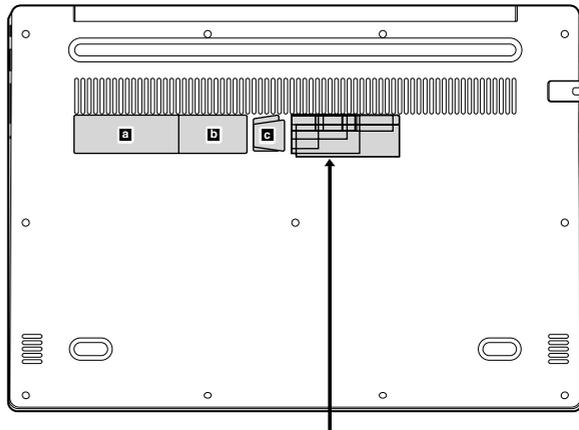
The new base cover FRU is shipped with a kit containing labels of several kinds. When you replace the base cover, you need to apply the following labels:

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

- a** Rating label 1
- b** Rating label 2
- c** GML label
- d** Office label for China
- e** CNC label 68 × 6 mm for Argentina and Argentina label 65 × 20 mm
- f** BT label 32 × 10 mm and WL label 32 × 10 mm for US/Canada/Taiwan
- g** KCC label 43 × 24 mm for Korea
- h** Postel label 15 × 10 mm and D Side label 26 × 10 mm for Indonesia
- i** BIS label 40 × 10 mm for India
- j** WL/BT label 32 × 10 mm for Israel
- k** WL/BT label 35 × 15 mm for Brazil
- l** WL label 20 × 10 mm for South Africa

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

⚠ DANGER

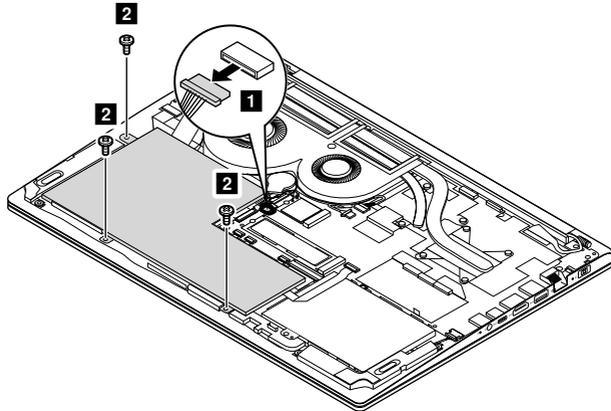
Only use the battery specified in the parts list for your computer. Any other battery could ignite or explode.

For access, remove these FRUs in order:

- “1010 Base cover” on page 33

Figure 2. Removal steps of battery pack

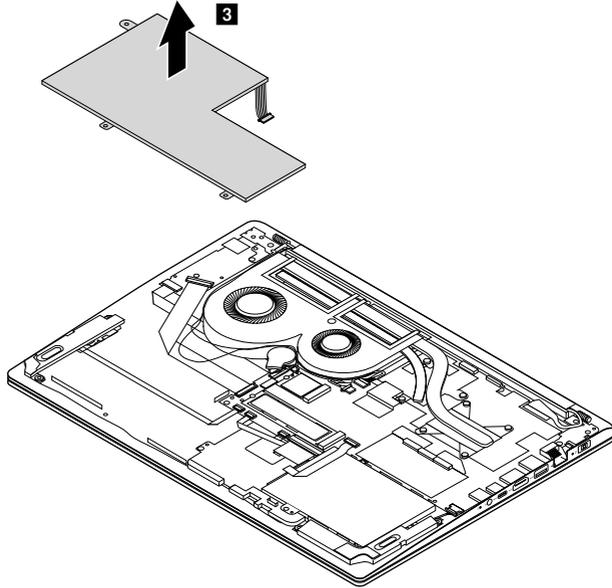
Detach the battery pack connector in the direction shown by arrow **1**. Remove the screws **2**.



Step	Screw (quantity)	Color	Torque
2	M2 × 3 mm, Phillips-head (3) battery---log up	Silver	1.7-2.2 kgf.cm

Figure 2. Removal steps of battery pack (continued)

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



1030 PCI Express Mini Card for wireless LAN

For access, remove these FRUs in order:

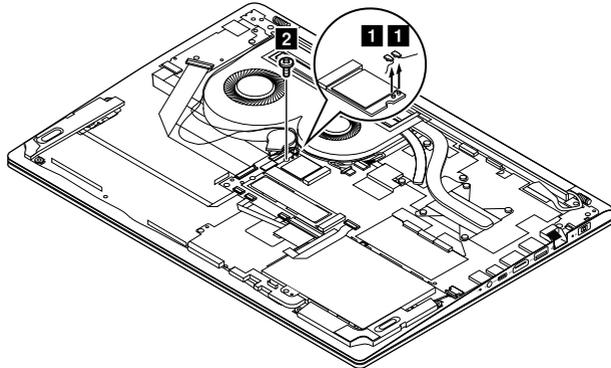
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36

Important:

The preinstalled WLAN module may only be replaced with a Lenovo approved module in order to comply with FCC and IC regulations. Refer to Table 4 “Parts list—Overall” on page 68 for Lenovo part numbers for the approved modules.

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

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



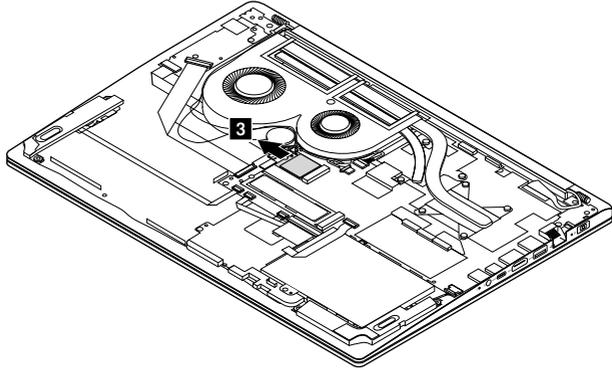
In step ■, unplug the jacks by using the removal tool antenna RF connector (P/N: 08K7159), or pick up the connectors with your fingers and gently unplug them in the direction shown by the arrows.

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

Step	Screw (quantity)	Color	Torque
■	M2 × 3 mm, Phillips-head (1) wireless card—log up	Bronze	1.7-2.2 kgf.cm

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

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



When installing:

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.

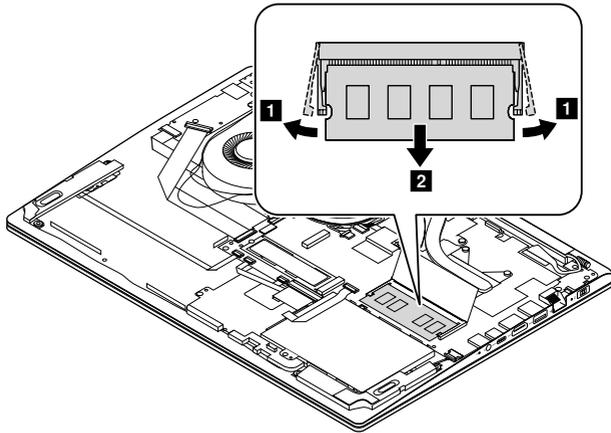
1040 DIMM

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38

Figure 4. Removal steps of DIMM

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



1050 Hard disk drive and SSD card

For access, remove these FRUs in order:

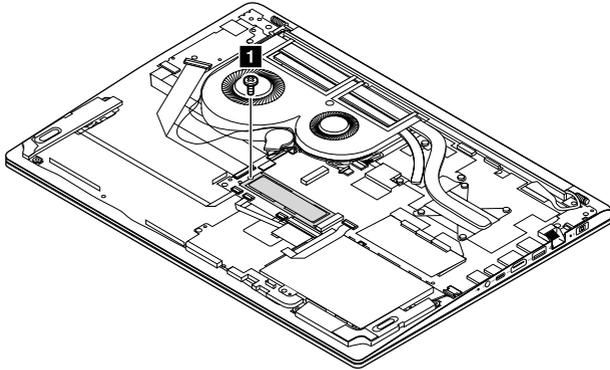
- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40

Attention:

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

Figure 5. Removal steps of hard disk drive and SSD card

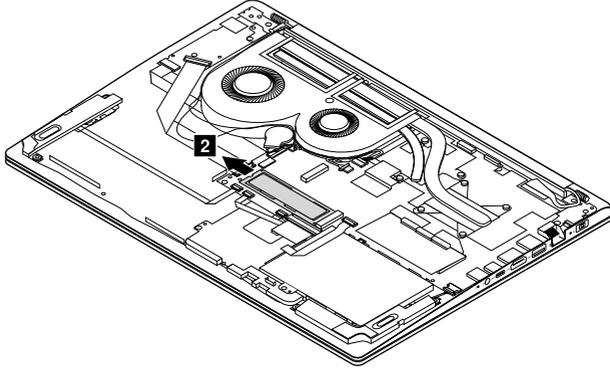
Remove the screw ■.



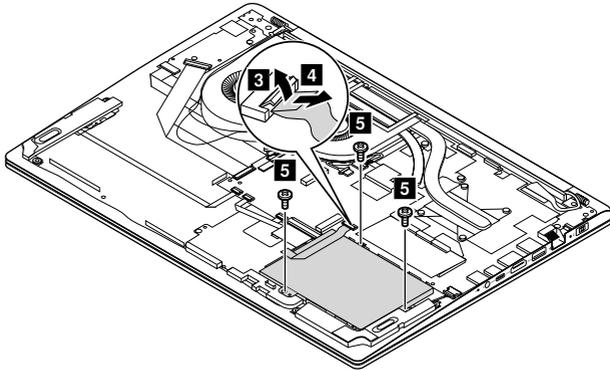
Step	Screw (quantity)	Color	Torque
■	M2 × 3 mm, Phillips-head (1)	Bronze	1.7-2.2 kgf.cm

Figure 5. Removal steps of hard disk drive and SSD card (continued)

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



Detach the HDD connector in the directions shown by arrow **3** and **4**. Remove the screws **5**.

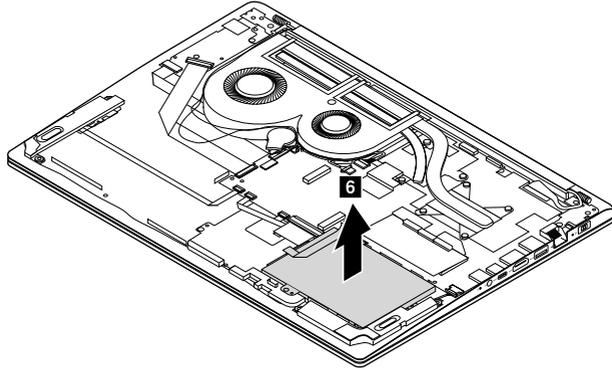


When installing: Make sure that the HDD connector is attached firmly.

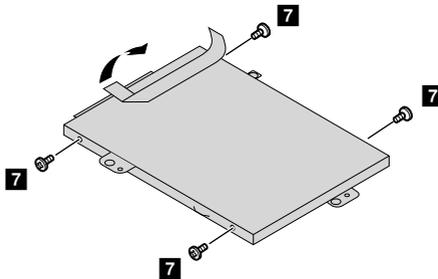
Step	Screw (quantity)	Color	Torque
5	M2 × 3 mm, Phillips-head (3)	Bronze	1.7-2.2 kgf.cm

Figure 5. Removal steps of hard disk drive and SSD card (continued)

Remove the hard disk drive from the slot in the direction shown by arrow **6**.



Remove the screws **7**. Detach the bracket from the hard disk drive.



Step	Screw (quantity)	Color	Torque
7	M3 × 4 mm, Phillips-head (4)	Silver	2.2-2.7 kgf.cm

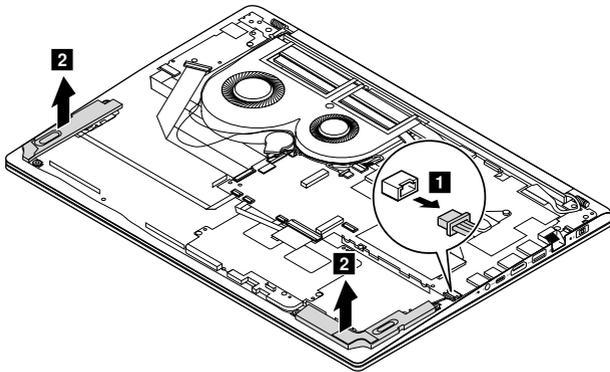
1060 Speakers

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41

Figure 6. Removal steps of speakers

Unplug the speaker connector **1**. Then remove the speakers **2**.



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

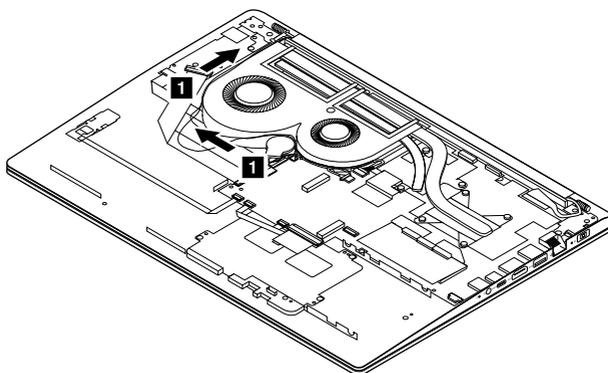
1070 Fan and heat sink assembly

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44

Figure 7. Removal steps of fan and heat sink assembly

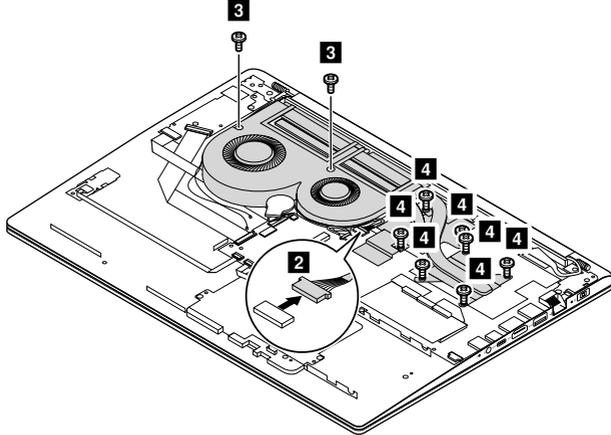
Release the cables from the cable guides in the direction shown by arrows ■.



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

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

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



Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, Phillips head (2) fan—mb—log up & fan—log up	Bronze	1.7-2.2 kgf.cm

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

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

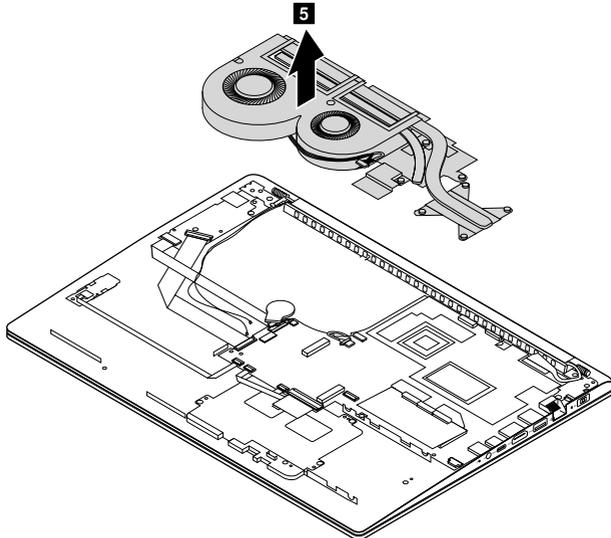
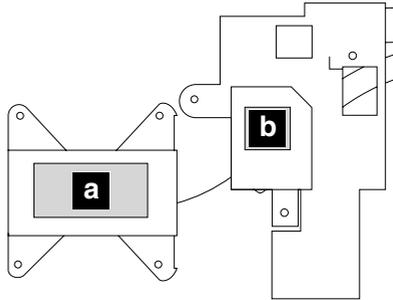


Figure 7. Removal steps of fan and heat sink assembly (continued)



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

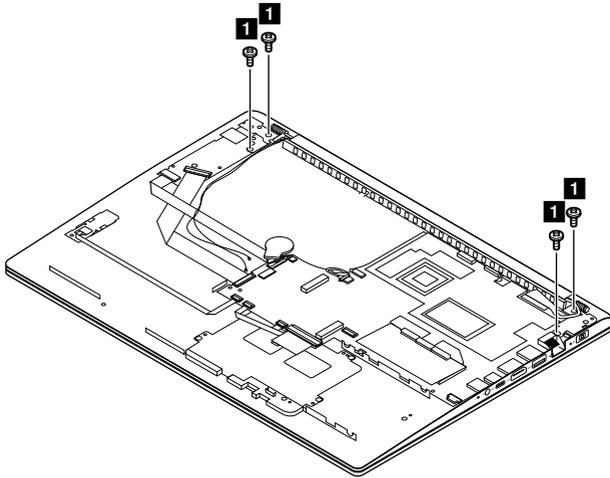
1080 Upper case

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44
- “1070 Fan and heat sink assembly” on page 45

Figure 8. Removal steps of upper case

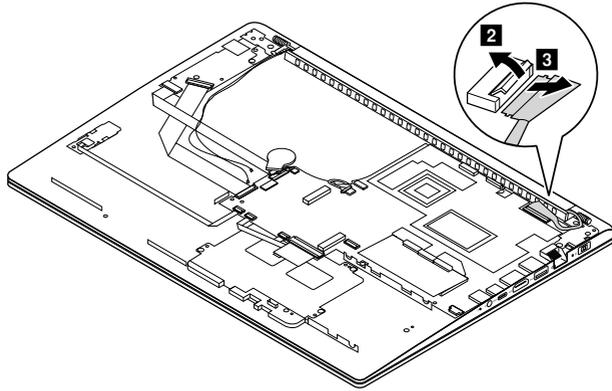
Remove the screws ■.



Step	Screw (quantity)	Color	Torque
■	M2.5 × 4 mm, Phillips-head (4) left side hinge---log up & right side hinge---log up	Silver	2.2-2.7 kgf.cm

Figure 8. Removal steps of upper case (continued)

Detach the LCD unit connector in the directions shown by arrows **2** and **3**.



Open the hinge in the direction shown by arrows **4**.

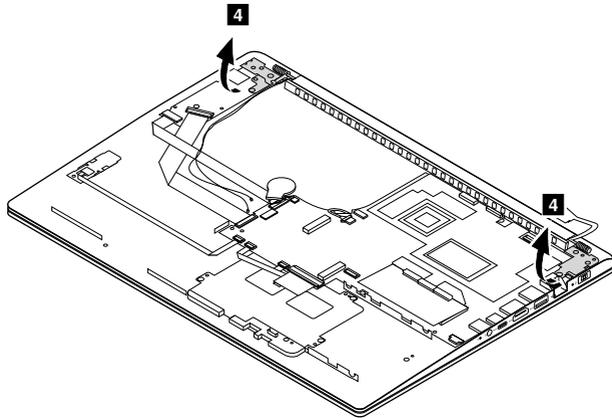
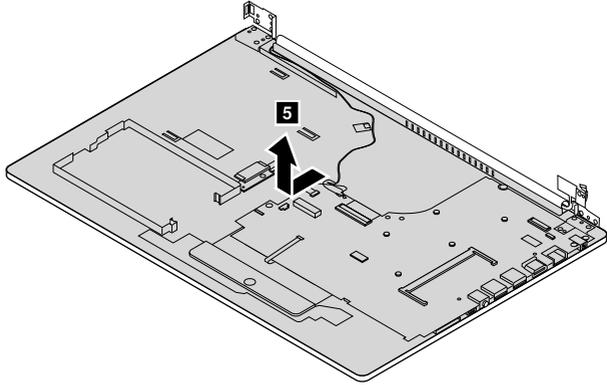


Figure 8. Removal steps of upper case (continued)

Remove the upper case from the LCD module in the directions shown by arrow **5**.



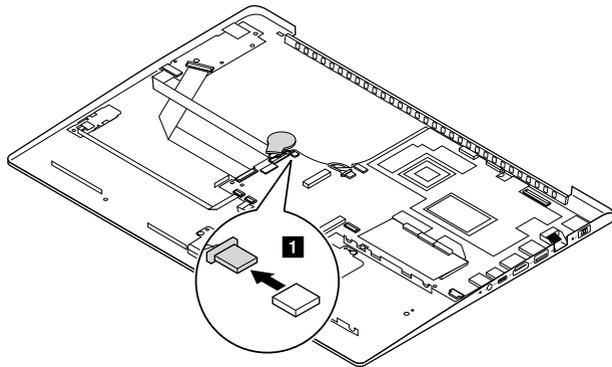
1090 I/O board, backup battery and fingerprint board

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44
- “1070 Fan and heat sink assembly” on page 45
- “1080 Upper case” on page 48

Figure 9. Removal steps of I/O board, backup battery and fingerprint board

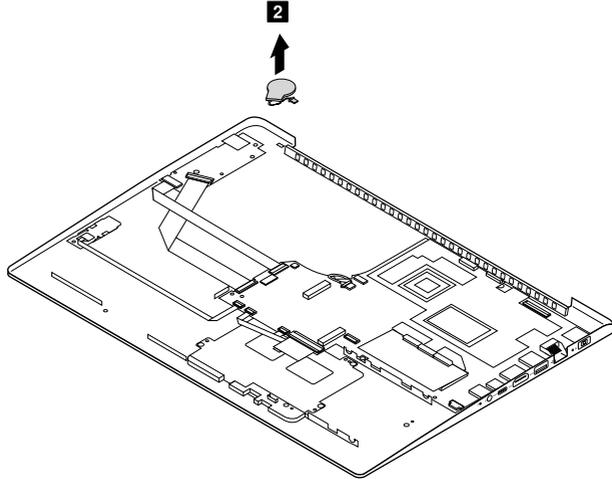
Unplug the backup battery connector in the direction shown by arrow ■.



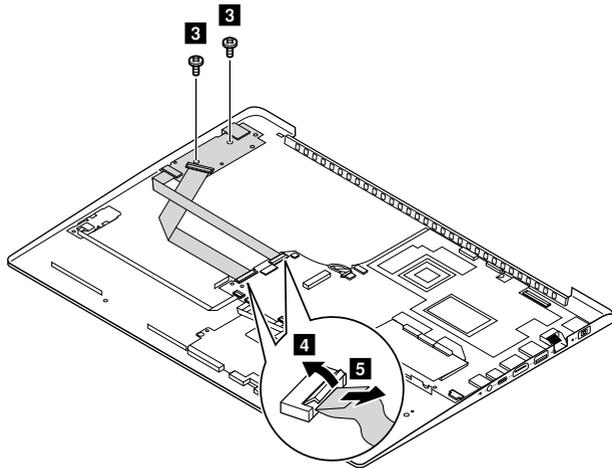
When installing: Make sure that the connector is attached firmly.

Figure 9. Removal steps of I/O board, backup battery and fingerprint board (continued)

Remove the backup battery in the direction shown by arrow **2**.



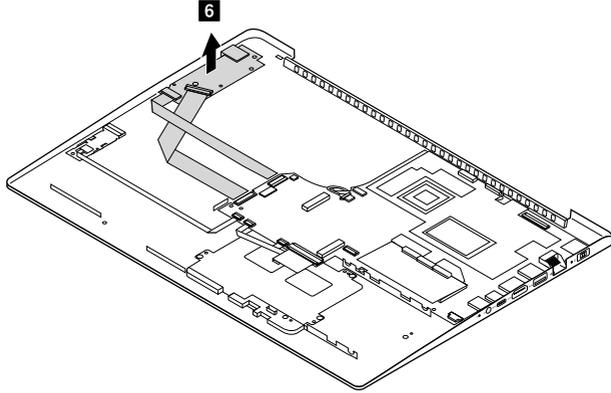
Remove the screw **3**. Detach the connectors in the directions shown by arrow **4** and **5**.



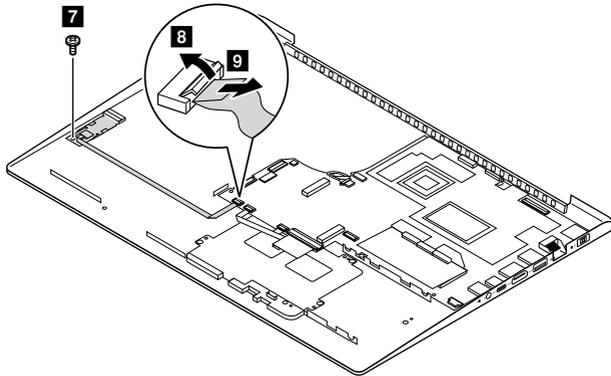
Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, Phillips-head (2)	Bronze	1.7-2.2 kgf.cm

Figure 9. Removal steps of I/O board, backup battery and fingerprint board (continued)

Remove the I/O board in the direction shown by arrow **6**.



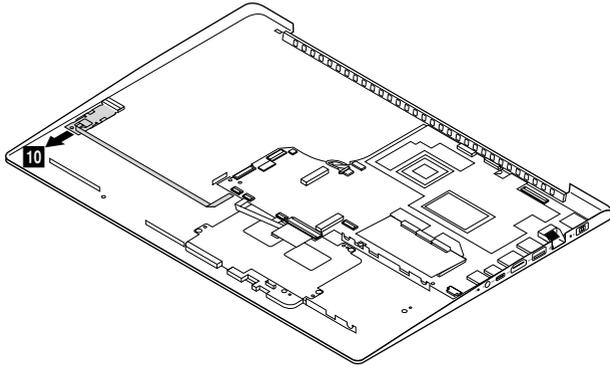
Remove the screw **7**. Detach the fingerprint board connector in the directions shown by arrow **8** and **9**.



Step	Screw (quantity)	Color	Torque
7	M2 × 2.5 mm, Phillips-head (1)	Bronze	1.7-2.2 kgf.cm

Figure 9. Removal steps of I/O board, backup battery and fingerprint board (continued)

Remove the fingerprint board and its bracket in the direction shown by arrow **10**.



1100 System board and touch pad

Important notices for handling the system board:

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

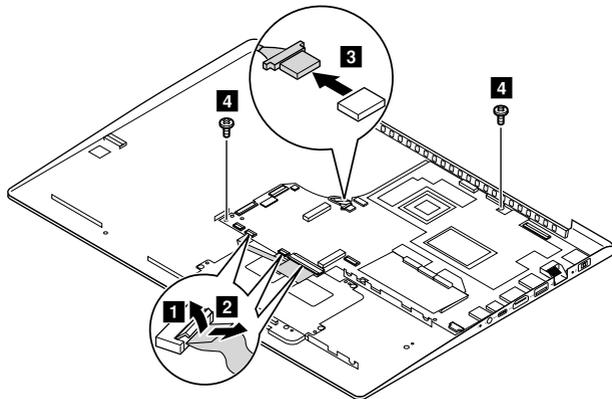
- Be careful not to drop the system board on a bench top that has a hard surface, such as metal, wood, or composite.
- Avoid rough handling of any kind.
- During the whole process, make sure not to drop or stack the system board.
- If you put a system board down, make sure to put it only on a padded 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 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44
- “1070 Fan and heat sink assembly” on page 45
- “1080 Upper case” on page 48
- “1090 I/O board, backup battery and fingerprint board” on page 51

Figure 10. Removal steps of system board and touch pad

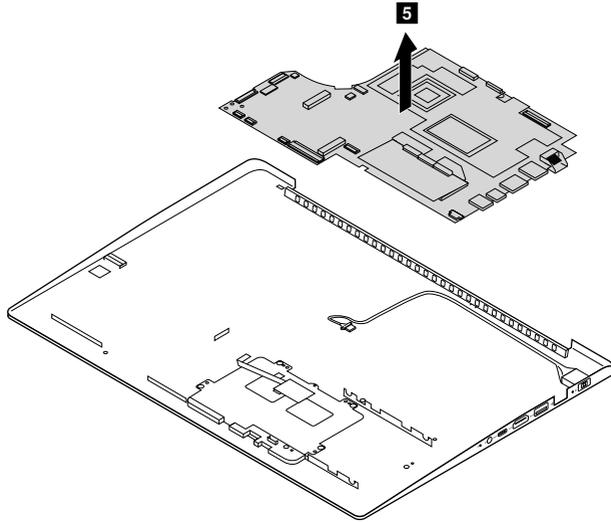
Disconnect the connectors in the directions shown by arrows **1**, **2** and **3**. Then remove the screws **4**.



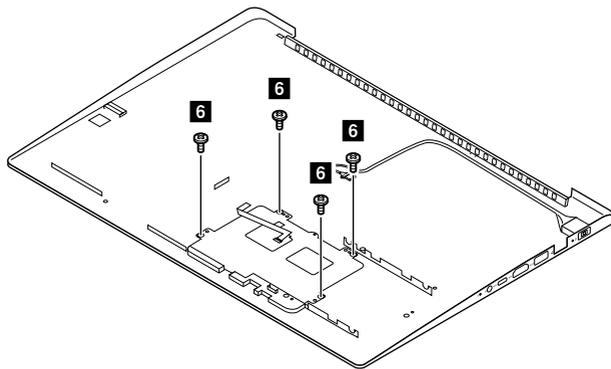
Step	Screw (quantity)	Color	Torque
4	M2 × 3 mm, Phillips-head (2) M/B---log up	Bronze	1.7-2.2 kgf.cm

Figure 10. Removal steps of system board and touch pad (continued)

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



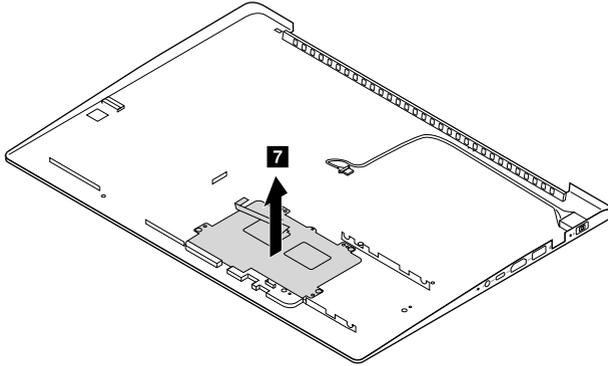
Remove the screws **6**.



Step	Screw (quantity)	Color	Torque
6	M2 × 2.5 mm, Phillips-head (4)	Silver	1.7-2.2 kgf.cm

Figure 10. Removal steps of system board and touch pad (continued)

Remove the touch pad in the direction shown by arrow **7**.



1110 LCD unit

For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44
- “1070 Fan and heat sink assembly” on page 45
- “1080 Upper case” on page 48
- “1090 I/O board, backup battery and fingerprint board” on page 51
- “1100 System board and touch pad” on page 55

Figure 11. Removal steps of LCD unit

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

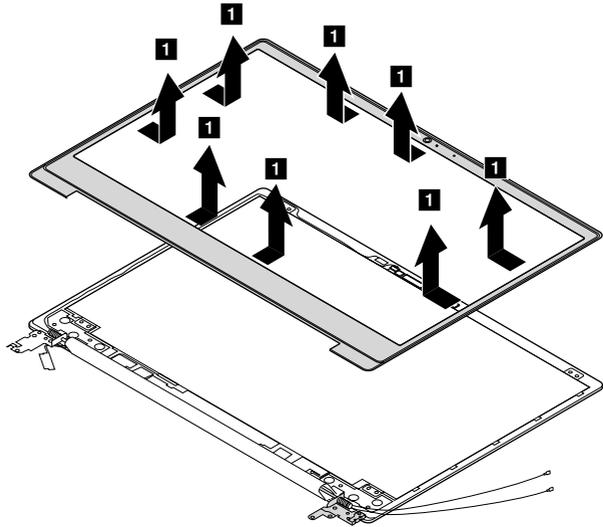
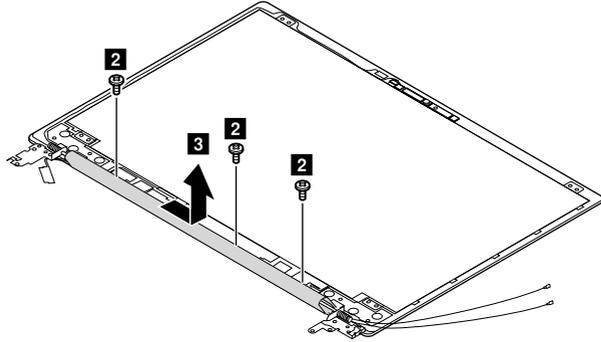


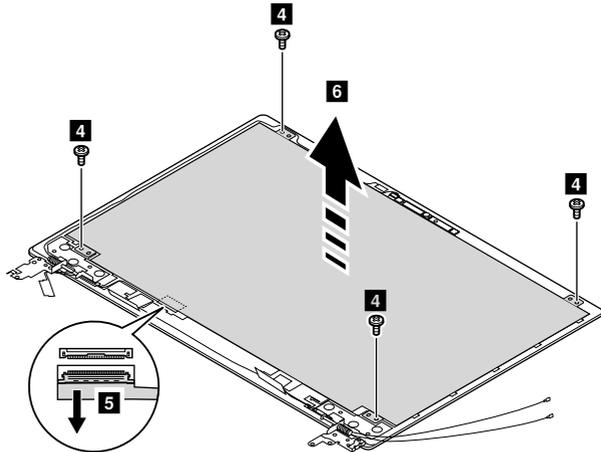
Figure 11. Removal steps of LCD unit (continued)

Remove the screws **2**. Pull the hinge cap to the right side to release the hooks **3**.



Step	Screw (quantity)	Color	Torque
2	M2 × 2.5 mm, Phillips-head (3)	Silver	1.7-2.2 kgf.cm

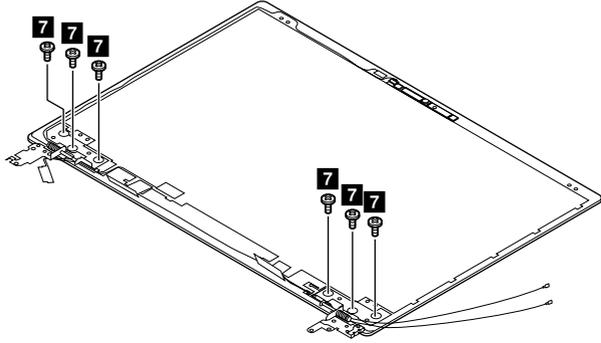
Remove the screws **4**. Lift the LCD module slightly. Disconnect the connector in the direction shown by arrow **5**. Then remove the LCD module **6**.



Step	Screw (quantity)	Color	Torque
4	M2 × 2 mm, Phillips-head (4) lcd panel---lcd cover	Silver	1.7-2.2 kgf.cm

Figure 11. Removal steps of LCD unit (continued)

Remove the screws **7**.



Step	Screw (quantity)	Color	Torque
7	M2 × 2 mm, Phillips-head (6) lcd hinge---lcd cover	Black	1.7-2.2 kgf.cm

Remove the LCD hinges in the direction shown by arrows **8**.

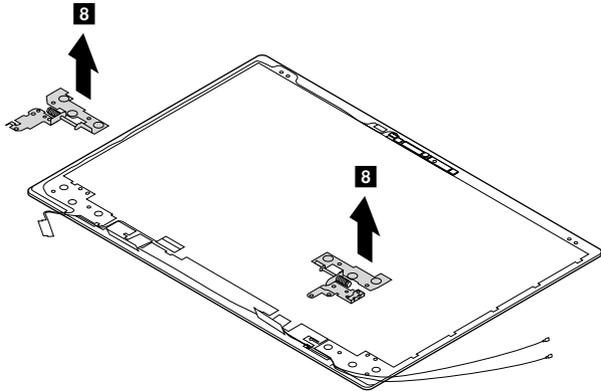
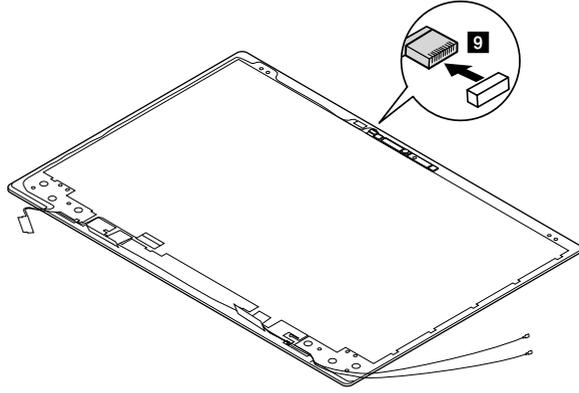
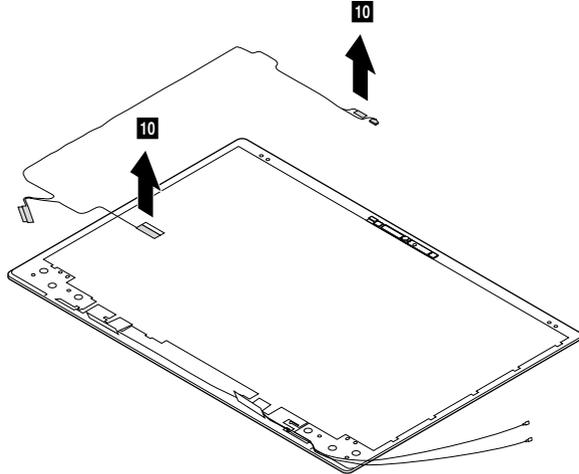


Figure 11. Removal steps of LCD unit (continued)

Detach the camera connector in the direction shown by arrow 9.



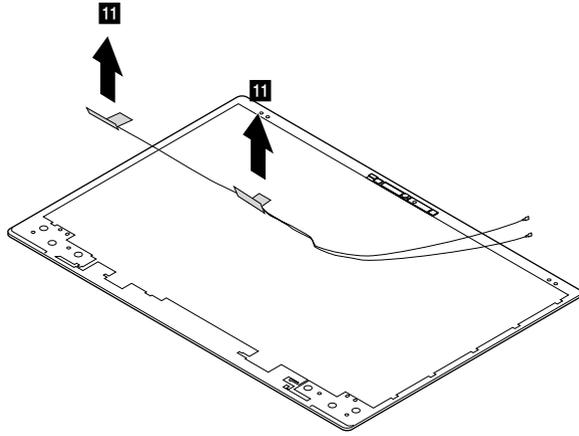
Remove the LCD cable in the direction shown by arrows 10.



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

Figure 11. Removal steps of LCD unit (continued)

Peel off the adhesive tape securing the antenna boards, release the cables from the cable guide, and then remove the antenna assembly in the direction shown by arrows **11**.



1120 Integrated camera and microphone assembly

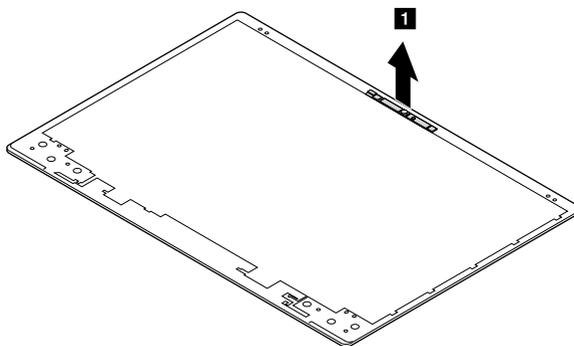
For access, remove these FRUs in order:

- “1010 Base cover” on page 33
- “1020 Battery pack” on page 36
- “1030 PCI Express Mini Card for wireless LAN” on page 38
- “1040 DIMM” on page 40
- “1050 Hard disk drive and SSD card” on page 41
- “1060 Speakers” on page 44
- “1070 Fan and heat sink assembly” on page 45
- “1080 Upper case” on page 48
- “1090 I/O board, backup battery and fingerprint board” on page 51
- “1100 System board and touch pad” on page 55
- “1110 LCD unit” on page 58

Figure 12. Removal steps of integrated camera and microphone assembly

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

Remove the integrated camera and antenna assembly in the direction shown by arrow **■**.

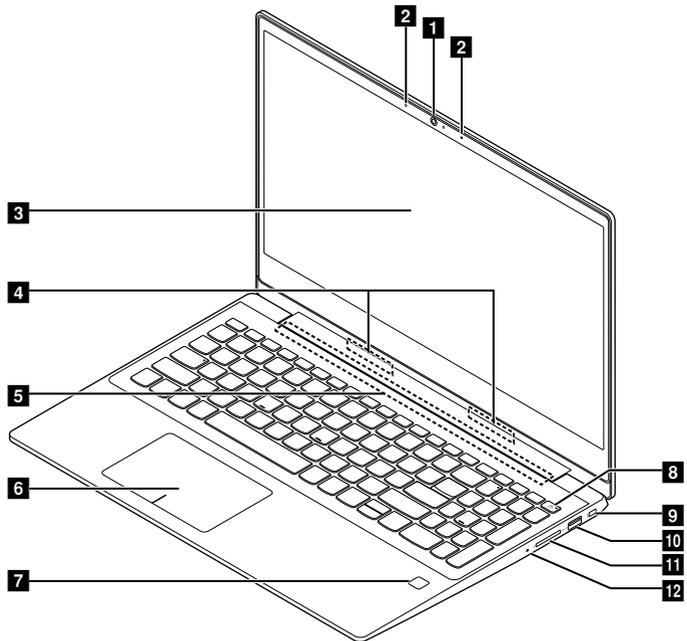


When installing: Stick the integrated camera and antenna assembly to the top center of the LCD cover and adjust its placement to make sure the connector is attached firmly.

Locations

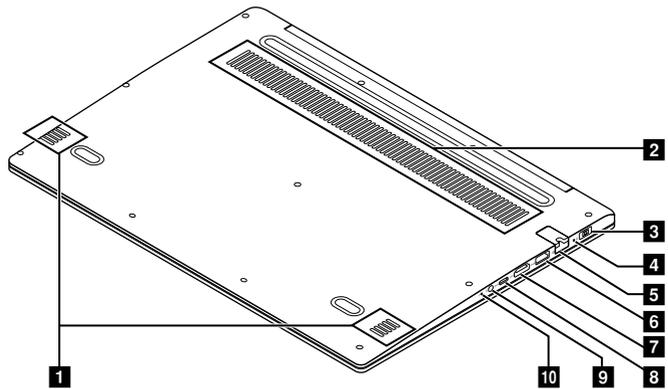
Front view and right-side view

- Integrated camera
- 2 Built-in microphone
- 3 Computer display
- 4 Wireless LAN antennas
- 5 Ventilation slots
- 6 Touch pad
- 7 Fingerprint reader (on select models)
- 8 Power Key
- 9 Kensington Security slot
- 10 USB port
- 11 Memory card slot
- 12 Novo button



Bottom and Left-side view

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



Parts list

This section presents the following service parts:

- “Overall” on page 67
- “LCD FRUs” on page 79
- “Miscellaneous parts” on page 81
- “AC adapters” on page 81
- “Screws” on page 81
- “Power cord” on page 81

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

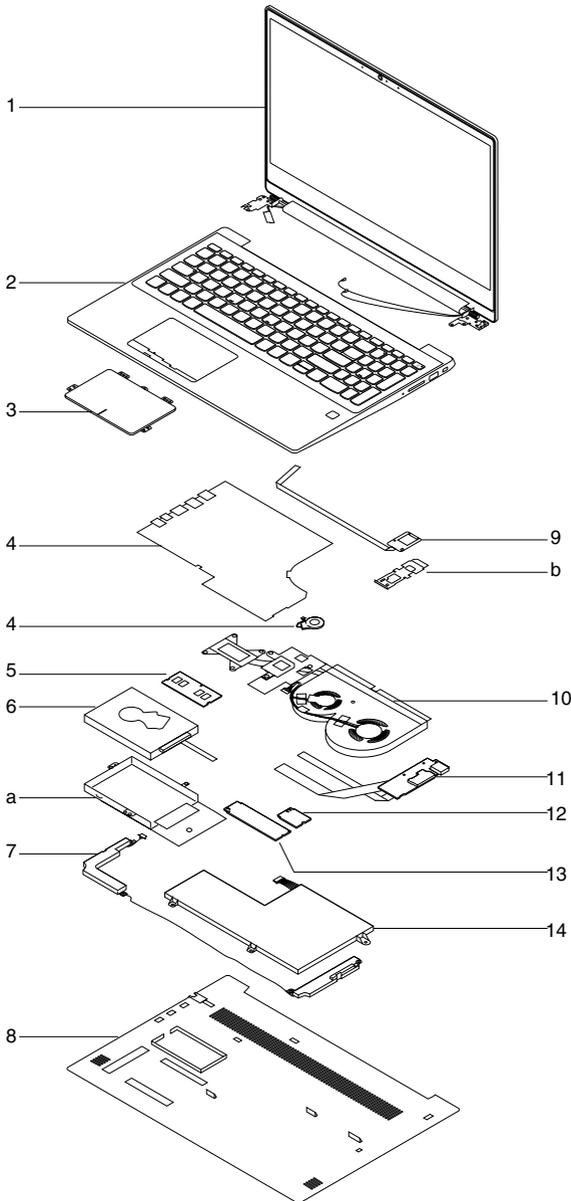


Table 4. Parts list—Overall

No.	FRU	FRU no.	CRU ID.
a-b	See "Miscellaneous parts" on page 81.		
1	LCD unit (see "LCD FRUs" on page 79).		
2	UpperCase W 81AG W/KB NBL US	5CB0P26383	N
2	UpperCase W 81AG W/KB NBL UK	5CB0P26373	
2	UpperCase W 81AG W/KB NBL IT	5CB0P26365	
2	UpperCase W 81AG W/KB NBL SP	5CB0P26372	
2	UpperCase W 81AG W/KB NBL TR	5CB0P26262	
2	UpperCase W 81AG W/KB NBL TI	5CB0P26378	
2	UpperCase W 81AG W/KB NBL PO	5CB0P26240	
2	UpperCase W 81AG W/KB NBL LA	5CB0P26300	
2	UpperCase W 81AG W/KB NBL CF-E	5CB0P26293	
2	UpperCase W 81AG W/KB NBL KO	5CB0P26238	
2	UpperCase W 81AG W/KB NBL CH	5CB0P26358	
2	UpperCase W 81AG W/KB NBL RU	5CB0P26375	
2	UpperCase W 81AG W/KB NBL FR	5CB0P26260	
2	UpperCase W 81AG W/KB NBL GR	5CB0P26266	
2	UpperCase W 81AG W/KB NBL AR-E	5CB0P26359	
2	UpperCase W 81AG W/KB NBL BZ	5CB0P26259	
2	UpperCase W 81AG W/KB NBL NL	5CB0P26287	
2	UpperCase W 81AG W/KB NBL GK	5CB0P26303	
2	UpperCase W 81AG W/KB NBL HB	5CB0P26336	
2	UpperCase W 81AG W/KB NBL HG	5CB0P26273	
2	UpperCase W 81AG W/KB NBL ND	5CB0P26404	
2	UpperCase W 81AG W/KB NBL BE	5CB0P26393	
2	UpperCase W 81AG W/KB NBL ICE	5CB0P26282	
2	UpperCase W 81AG W/KB NBL SA	5CB0P26255	
2	UpperCase W 81AG W/KB NBL SW	5CB0P26376	
2	UpperCase W 81AG W/KB NBL UI	5CB0P26394	
2	UpperCase W 81AG W/KB NBL SK	5CB0P26309	
2	UpperCase W 81AG W/KB NBL BU	5CB0P26395	
2	UpperCase W 81AG W/KB NBL IN	5CB0P26246	
2	UpperCase W 81AG W/KB NBL AR-FR	5CB0P26347	
2	UpperCase W 81AG W/KB NBL UA	5CB0P26314	
2	UpperCase W 81AG W/KB BL US	5CB0P26305	
2	UpperCase W 81AG W/KB BL USA	5CB0P26244	
2	UpperCase W 81AG W/KB BL UK	5CB0P26348	
2	UpperCase W 81AG W/KB BL IT	5CB0P26396	
2	UpperCase W 81AG W/KB BL SP	5CB0P26405	
2	UpperCase W 81AG W/KB BL TR	5CB0P26278	
2	UpperCase W 81AG W/KB BL TI	5CB0P26241	
2	UpperCase W 81AG W/KB BL PO	5CB0P26298	
2	UpperCase W 81AG W/KB BL LA	5CB0P26339	
2	UpperCase W 81AG W/KB BL CF-E	5CB0P26247	
2	UpperCase W 81AG W/KB BL KO	5CB0P26362	
2	UpperCase W 81AG W/KB BL CH	5CB0P26366	
2	UpperCase W 81AG W/KB BL RU	5CB0P26292	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpperCase W 81AG W/KB BL FR	5CB0P26252	N
2	UpperCase W 81AG W/KB BL GR	5CB0P26320	
2	UpperCase W 81AG W/KB BL AR-E	5CB0P26281	
2	UpperCase W 81AG W/KB BL BZ	5CB0P26328	
2	UpperCase W 81AG W/KB BL NL	5CB0P26268	
2	UpperCase W 81AG W/KB BL GK	5CB0P26391	
2	UpperCase W 81AG W/KB BL HB	5CB0P26370	
2	UpperCase W 81AG W/KB BL HG	5CB0P26280	
2	UpperCase W 81AG W/KB BL ND	5CB0P26284	
2	UpperCase W 81AG W/KB BL BE	5CB0P26322	
2	UpperCase W 81AG W/KB BL ICE	5CB0P26364	
2	UpperCase W 81AG W/KB BL SA	5CB0P26265	
2	UpperCase W 81AG W/KB BL SW	5CB0P26401	
2	UpperCase W 81AG W/KB BL UI	5CB0P26335	
2	UpperCase W 81AG W/KB BL CZ-SK	5CB0P26254	
2	UpperCase W 81AG W/KB BL BU	5CB0P26286	
2	UpperCase W 81AG W/KB BL IN	5CB0P26324	
2	UpperCase W 81AG W/KB BL AR-FR	5CB0P26257	
2	UpperCase W 81AG W/KB BL UA	5CB0P26310	
2	UpperCase W 81AG W/KB NFP NBL US	5CB0P26351	
2	UpperCase W 81AG W/KB NFP NBL UK	5CB0P26371	
2	UpperCase W 81AG W/KB NFP NBL IT	5CB0P26354	
2	UpperCase W 81AG W/KB NFP NBL SP	5CB0P26313	
2	UpperCase W 81AG W/KB NFP NBL TR	5CB0P26390	
2	UpperCase W 81AG W/KB NFP NBL TI	5CB0P26341	
2	UpperCase W 81AG W/KB NFP NBL PO	5CB0P26319	
2	UpperCase W 81AG W/KB NFP NBL LA	5CB0P26357	
2	UpperCase W 81AG W/KB NFP NBL CF-E	5CB0P26345	
2	UpperCase W 81AG W/KB NFP NBL KO	5CB0P26269	
2	UpperCase W 81AG W/KB NFP NBL CH	5CB0P26398	
2	UpperCase W 81AG W/KB NFP NBL RU	5CB0P26332	
2	UpperCase W 81AG W/KB NFP NBL FR	5CB0P26380	
2	UpperCase W 81AG W/KB NFP NBL GR	5CB0P26264	
2	UpperCase W 81AG W/KB NFP NBL AR-E	5CB0P26279	
2	UpperCase W 81AG W/KB NFP NBL BZ	5CB0P26388	
2	UpperCase W 81AG W/KB NFP NBL NL	5CB0P26271	
2	UpperCase W 81AG W/KB NFP NBL GK	5CB0P26360	
2	UpperCase W 81AG W/KB NFP NBL HB	5CB0P26294	
2	UpperCase W 81AG W/KB NFP NBL HG	5CB0P26285	
2	UpperCase W 81AG W/KB NFP NBL ND	5CB0P26315	
2	UpperCase W 81AG W/KB NFP NBL BE	5CB0P26321	
2	UpperCase W 81AG W/KB NFP NBL ICE	5CB0P26290	
2	UpperCase W 81AG W/KB NFP NBL SA	5CB0P26389	
2	UpperCase W 81AG W/KB NFP NBL SW	5CB0P26325	
2	UpperCase W 81AG W/KB NFP NBL UI	5CB0P26263	
2	UpperCase W 81AG W/KB NFP NBL SK	5CB0P26369	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	UpperCase W 81AG W/KB NFP NBL BU	5CB0P26274	N
2	UpperCase W 81AG W/KB NFP NBL IN	5CB0P26289	
2	UpperCase W 81AG W/KB NFP NBLAR-FR	5CB0P26344	
2	UpperCase W 81AG W/KB NFP NBL UA	5CB0P26317	
2	UpperCase W 81AG W/KB NFP BL US	5CB0P26272	
2	UpperCase W 81AG W/KB NFP BL USA	5CB0P26327	
2	UpperCase W 81AG W/KB NFP BL UK	5CB0P26256	
2	UpperCase W 81AG W/KB NFP BL IT	5CB0P26385	
2	UpperCase W 81AG W/KB NFP BL SP	5CB0P26343	
2	UpperCase W 81AG W/KB NFP BL TR	5CB0P26283	
2	UpperCase W 81AG W/KB NFP BL TI	5CB0P26368	
2	UpperCase W 81AG W/KB NFP BL PO	5CB0P26245	
2	UpperCase W 81AG W/KB NFP BL LA	5CB0P26402	
2	UpperCase W 81AG W/KB NFP BL CF-E	5CB0P26403	
2	UpperCase W 81AG W/KB NFP BL KO	5CB0P26363	
2	UpperCase W 81AG W/KB NFP BL CH	5CB0P26386	
2	UpperCase W 81AG W/KB NFP BL RU	5CB0P26288	
2	UpperCase W 81AG W/KB NFP BL FR	5CB0P26331	
2	UpperCase W 81AG W/KB NFP BL GR	5CB0P26356	
2	UpperCase W 81AG W/KB NFP BL AR-E	5CB0P26261	
2	UpperCase W 81AG W/KB NFP BL BZ	5CB0P26318	
2	UpperCase W 81AG W/KB NFP BL NL	5CB0P26377	
2	UpperCase W 81AG W/KB NFP BL GK	5CB0P26349	
2	UpperCase W 81AG W/KB NFP BL HB	5CB0P26311	
2	UpperCase W 81AG W/KB NFP BL HG	5CB0P26250	
2	UpperCase W 81AG W/KB NFP BL ND	5CB0P26249	
2	UpperCase W 81AG W/KB NFP BL BE	5CB0P26323	
2	UpperCase W 81AG W/KB NFP BL ICE	5CB0P26276	
2	UpperCase W 81AG W/KB NFP BL SA	5CB0P26326	
2	UpperCase W 81AG W/KB NFP BL SW	5CB0P26330	
2	UpperCase W 81AG W/KB NFP BL UI	5CB0P26239	
2	UpperCase W 81AG W/KB NFP BL CZ-SK	5CB0P26337	
2	UpperCase W 81AG W/KB NFP BL BU	5CB0P26329	
2	UpperCase W 81AG W/KB NFP BL IN	5CB0P26253	
2	UpperCase W 81AG W/KB NFP BL AR-FR	5CB0P26291	
2	UpperCase W 81AG W/KB NFP BL UA	5CB0P26270	
2	US101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M62983	
2	UK102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63207	
2	Italian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63137	
2	Spanish102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63041	
2	Turkish102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63022	
2	Thailand101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63053	
2	Portugue102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63135	
2	LatinSpa102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63194	
2	CanadFrEn102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63023	
2	Korean101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63163	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	TradChine101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63185	N
2	Russian101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63001	
2	French102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63076	
2	German102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63126	
2	Arabic101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63065	
2	Brazilian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63103	
2	Japanese105KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63179	
2	Dutch102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63054	
2	Greek101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M62982	
2	Hebrew101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63118	
2	Hungarian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63102	
2	Nordic102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63029	
2	Belgian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63215	
2	Iceland102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63012	
2	Slovenian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M62988	
2	Swiss102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63035	
2	USInter101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M62989	
2	Czh-Slk102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63168	
2	Bulgarian102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63187	
2	India101KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63030	
2	French-Arabic102KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63047	
2	Ukrainia96KeyPC5CPJMEGreyKwithPowerkeyNormalKB	SN20M63063	
2	US101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63090	
2	UK102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63071	
2	Italian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63151	
2	Spanish102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63086	
2	Turkish102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63026	
2	Thailand101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63132	
2	Portugue102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63121	
2	LatinSpa102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63014	
2	CanadFrEn102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63004	
2	Korean101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63220	
2	TradChine101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63097	
2	Russian101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63031	
2	French102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63157	
2	German102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63193	
2	Arabic101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63091	
2	Brazilian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63129	
2	Japanese105KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63153	
2	Dutch102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63093	
2	Greek101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63178	
2	Hebrew101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63162	
2	Hungarian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63084	
2	Nordic102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63006	
2	Belgian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63105	
2	Iceland102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63127	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Slovenian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63224	N
2	Swiss102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63040	
2	USInter101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63142	
2	Czh-Slk102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63027	
2	Bulgarian102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M62974	
2	India101KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63039	
2	French-Arabic102KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63072	
2	Ukrainia96KeyPC5CPLiteonGreyKwithPowerkeyNormalKB	SN20M63081	
2	US101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63110	
2	UK102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63191	
2	Italian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M62986	
2	Spanish102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63227	
2	Turkish102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63069	
2	Thailand101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63005	
2	Portugue102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63092	
2	LatinSpa102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63206	
2	CanadFrEn102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63099	
2	Korean101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63134	
2	TradChine101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63051	
2	Russian101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63125	
2	French102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63190	
2	German102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63044	
2	Arabic101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63174	
2	Brazilian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63197	
2	Japanese105KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63050	
2	Dutch102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63120	
2	Greek101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63201	
2	Hebrew101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M62998	
2	Hungarian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63177	
2	Nordic102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63070	
2	Belgian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M62985	
2	Iceland102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63222	
2	Slovenian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63107	
2	Swiss102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63020	
2	USInter101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63048	
2	Czh-Slk102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63150	
2	Bulgarian102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63218	
2	India101KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63211	
2	French-Arabic102KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63202	
2	Ukrainia96KeyPC5CPDarfonGreyKwithPowerkeyNormalKB	SN20M63214	
2	US101KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63203	
2	UK102KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63108	
2	Italian102KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63154	
2	Spanish102KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63166	
2	Turkish102KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63095	
2	Thailand101KeyPC5CPChiconyGreyKwithPowerkeyNormalKB	SN20M63000	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Portugue102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63128	N
2	LatinSpa102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63188	
2	CanadFrEn102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63111	
2	Korean101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63007	
2	TradChine101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63018	
2	Russian101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63062	
2	French102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63083	
2	German102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63112	
2	Arabic101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63219	
2	Brazilian102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63164	
2	Japanese105KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63052	
2	Dutch102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63139	
2	Greek101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63046	
2	Hebrew101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63113	
2	Hungarian102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63145	
2	Nordic102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63045	
2	Belgian102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63181	
2	Iceland102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M62981	
2	Slovenian102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63138	
2	Swiss102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63115	
2	USInter101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M62975	
2	Czh-Slk102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63204	
2	Bulgarian102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63037	
2	India101KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63061	
2	French-Arabic102KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63228	
2	Ukrainia96KeyPC5CPCChiconyGreyKwithPowerkeyNormalKB	SN20M63159	
2	US101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63141	
2	US101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB-forUSA	SN20M63155	
2	UK102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63058	
2	Italian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63025	
2	Spanish102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M62991	
2	Turkish102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63170	
2	Thailand101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63087	
2	Portugue102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63064	
2	LatinSpa102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63186	
2	CanadFrEn102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63074	
2	Korean101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63221	
2	TradChine101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63080	
2	Russian101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63192	
2	French102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63010	
2	German102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63101	
2	Arabic101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63189	
2	Brazilian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63059	
2	Japanese105KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63036	
2	Dutch102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63106	
2	Greek101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63089	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	Hebrew101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63123	N
2	Hungarian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63148	
2	Nordic102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M62987	
2	Belgian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63079	
2	Iceland102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63043	
2	Slovenian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63100	
2	Swiss102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63182	
2	USInter101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63034	
2	Czh-Slk102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63094	
2	Bulgarian102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63019	
2	India101KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63098	
2	French-Arabic102KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63169	
2	Ukrainia96KeyPC5CPBJMEGreyKwithPowerkeyBacklightKB	SN20M63124	
2	US101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63230	
2	US101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB-forUSA	SN20M62996	
2	UK102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M62977	
2	Italian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63060	
2	Spanish102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63073	
2	Turkish102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63232	
2	Thailand101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63033	
2	Portugue102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63231	
2	LatinSpa102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M62979	
2	CanadFrEn102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M62976	
2	Korean101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63171	
2	TradChine101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63146	
2	Russian101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63008	
2	French102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63226	
2	German102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63205	
2	Arabic101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63184	
2	Brazilian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63156	
2	Japanese105KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63195	
2	Dutch102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63175	
2	Greek101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63119	
2	Hebrew101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63049	
2	Hungarian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63085	
2	Nordic102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63196	
2	Belgian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63160	
2	Iceland102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63167	
2	Slovenian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M62990	
2	Swiss102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63109	
2	USInter101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63223	
2	Czh-Slk102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63158	
2	Bulgarian102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63210	
2	India101KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63082	
2	French-Arabic102KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M63068	
2	Ukrainia96KeyPC5CPBLiteonGreyKwithPowerkeyBacklightKB	SN20M62973	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	US101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63136	N
2	US101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB-forUSA	SN20M63078	
2	UK102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63161	
2	Italian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M62993	
2	Spanish102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63131	
2	Turkish102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63016	
2	Thailand101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63144	
2	Portugue102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63075	
2	LatinSpa102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63143	
2	CanadFrEn102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63055	
2	Korean101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63013	
2	TradChine101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63003	
2	Russian101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63213	
2	French102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63114	
2	German102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M62997	
2	Arabic101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63009	
2	Brazilian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63021	
2	Japanese105KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63180	
2	Dutch102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63117	
2	Greek101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M62999	
2	Hebrew101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63056	
2	Hungarian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63038	
2	Nordic102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63116	
2	Belgian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63217	
2	Iceland102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63017	
2	Slovenian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63032	
2	Swiss102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63176	
2	USInter101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63057	
2	Czh-Slk102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63216	
2	Bulgarian102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63002	
2	India101KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63130	
2	French-Arabic102KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63133	
2	Ukraine96KeyPC5CPBDarfonGreyKwithPowerkeyBacklightKB	SN20M63042	
2	US101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63024	
2	US101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB-forUSA	SN20M63229	
2	UK102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63225	
2	Italian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62980	
2	Spanish102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63122	
2	Turkish102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63066	
2	Thailand101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63149	
2	Portugue102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62978	
2	LatinSpa102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63140	
2	CanadFrEn102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63208	
2	Korean101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63077	
2	TradChine101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63198	
2	Russian101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63172	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
2	French102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63088	N
2	German102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62984	
2	Arabic101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63011	
2	Brazilian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63183	
2	Japanese105KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63104	
2	Dutch102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63212	
2	Greek101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63067	
2	Hebrew101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63199	
2	Hungarian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63209	
2	Nordic102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62992	
2	Belgian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63165	
2	Iceland102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63152	
2	Slovenian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63173	
2	Swiss102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62994	
2	USInter101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63028	
2	Czh-Slk102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63147	
2	Bulgarian102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63096	
2	India101KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63200	
2	French-Arabic102KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M62995	
2	Ukrainia96KeyPC5CPBChiconyGreyKwithPowerkeyBacklightKB	SN20M63015	
2	DC-IN Cable W 81AG	5C10P26267	
3	TP Module W 81AG W/Cable	5T60P26374	
3	TM-P3255-001 69x104x1.0 0.5 I2C	ST60M57336	
3	SA469D-22H9 69x104x1.0 0.5 I2C	ST60M57453	
4	MB W 81AG WIN I37100 G1 2G 4G	5B20P26352	
4	MB W 81AG WIN I37100 G1 4G 4G	5B20P26277	
4	MB W 81AG WIN I37100 P1 2G 4G	5B20P26251	
4	MB W 81AG WIN I37100 P1 4G 4G	5B20P26333	
4	MB W 81AG WIN I37100 G1 2G	5B20P26381	
4	MB W 81AG WIN I37100 G1 4G	5B20P26355	
4	MB W 81AG WIN I37100 P1 2G	5B20P26400	
4	MB W 81AG WIN I37100 P1 4G	5B20P26296	
4	MB W 81AG WIN I57200 G1 2G 4G	5B20P26340	
4	MB W 81AG WIN I57200 G1 4G 4G	5B20P26397	
4	MB W 81AG WIN I57200 P1 2G 4G	5B20P26384	
4	MB W 81AG WIN I57200 P1 4G 4G	5B20P26237	
4	MB W 81AG WIN I57200 G1 2G	5B20P26243	
4	MB W 81AG WIN I57200 G1 4G	5B20P26316	
4	MB W 81AG WIN I57200 P1 2G	5B20P26301	
4	MB W 81AG WIN I57200 P1 4G	5B20P26338	
4	MB W 81AG WIN I77500 G1 2G 4G	5B20P26306	
4	MB W 81AG WIN I77500 G1 4G 4G	5B20P26342	
4	MB W 81AG WIN I77500 P1 2G 4G	5B20P26392	
4	MB W 81AG WIN I77500 P1 4G 4G	5B20P26379	
4	MB W 81AG WIN I77500 G1 2G	5B20P26308	
4	MB W 81AG WIN I77500 G1 4G	5B20P26275	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
4	MB W 81AG WIN I77500 P1 2G	5B20P26297	N
4	MB W 81AG WIN I77500 P1 4G	5B20P26382	
5	M471A5644EB0-CRC	SM30G16500	
5	HMA425S6AFR6N-UH	SM30G16501	
5	MTA4ATF25664HZ-2G3B1	SM30G16502	
5	RMSA3270MB76H8F-2400	SM30G16503	
5	M471A5244CB0-CRC	SM30M49902	
5	HMA851S6AFR6N-UH	SM30G16505	
5	MTA4ATF51264HZ-2G3B1	SM30G16506	
5	RMSA3270MB86H9F-2400	SM30G16507	
5	M471A1K43CB1-CRC	SM30M49901	
5	HMA81GS6AFR8N-UH	SM30G16509	
5	8GB D4 26S MTA8ATF1G64HZ-2G6H1	SM30K25288	
5	8GB D4 26S RMSA3260MH78HAF-2666	SM30K25294	
5	M471A2K43CB1-CRC	SM30M49903	
5	HMA82GS6AFR8N-UH	SM30G16513	
5	16GB D4 26S MTA16ATF2G64HZ-2G6H1	SM30K25289	
6	Seagate ST1000LM035 1T 2.5" 7mm 5400rpm HDD	5H20L22184	
6	WD10SPCX-24HWST1 6G 7mm 1T HDD	16200554	
6	TSB MQ02ABF100 6G 7mm 5.4k 1TB HDD	5H20G09709	
6	ST Rosewood2D 7mm 2TB HDD	5H20M37521	
6	Dummy HDD	SMCOP25909	
6	HDD Cable W 81AG	5C10P26299	
7	720-15 Veco 1224 Speaker	5SB0N11746	
8	Lower Case W 81AG	5CB0P26302	
9	JYAA062A-Platinum Grey	SF30M82345	
9	MLE3M4-Platinum Gray	SF30M97440	
9	FP FFC W 81AG	5C10P26242	
10	Heatsink W 81AG DIS	5H40P26307	
11	I/O Board W 81AG W/Cable	5C50P26304	
12	Intel 3165 1x1AC+BT PCIE M.2 WLAN	SW10H24486	
12	RTL8821CE 1x1AC+BT4.2 Combo M.2	SW10K97462	
12	Ltn NFA435A 1x1AC+BT PCIE M.2 WLAN	SW10K97461	
12	RTL8821CE 1x1AC+BT4.2 Combo M.2 (non-Intel)	SW10K97462	
12	Ltn NFA435A 1x1AC+BT PCIE M.2 WLAN (non-Intel)	SW10K97461	
12	Intel 8265 2x2AC+BT PCIE M.2 WLAN NV	SW10K97453	
12	Liteon Ltn NFA344A 2x2AC+BT4.x PCIE M.2 WLAN	SW10K97465	
12	Liteon Ltn NFA344A 2x2AC+BT4.x PCIE M.2 WLAN (non-Intel)	SW10K97465	
13	PM961 MZVLW128HEGR PCIE 128G SSD	5SD0L73445	
13	XG4 128GB M.2 2280 PCIe-NVMe THNSN5128GPUK SSD	5SD0M56301	
13	PM961 MZVLW256HEHP PCIE 256G SSD	5SD0L73444	
13	Intel 600p 256GB M.2 2280 PCIe -NVMe SSDPEKKW256G7 SSD	5SD0M56358	
13	XG4 256GB M.2 2280 PCIe-NVMe THNSN5256GPUK SSD	5SD0M56299	
13	PM961 MZVLW512HMJP PCIE 512G SSD	5SD0L73443	
13	XG4 512GB M.2 2280 PCIe-NVMe THNSN5512GPUK SSD	5SD0M56300	

Table 4. Parts list—Overall (continued)

No.	FRU	FRU no.	CRU ID.
13	AM6671 M.2 2280 512GB PCIe LENS20512GMSP34MEAT2TA SSD	5SD0N26460	N
14	Tesla SP/A L14M3P21 11.1V45Wh3cell GB	5B10K10186	
14	Tesla SP/C L14M3P21 11.1V45Wh3cell GB	5B10K10236	
14	Tesla LG L14L3P21 11.1V45Wh3cell bty	5B10M52817	

LCD FRUs

In Lenovo ideapad 720-15IKB, there is following type of LCD.

- “15.6-in. HD LED”

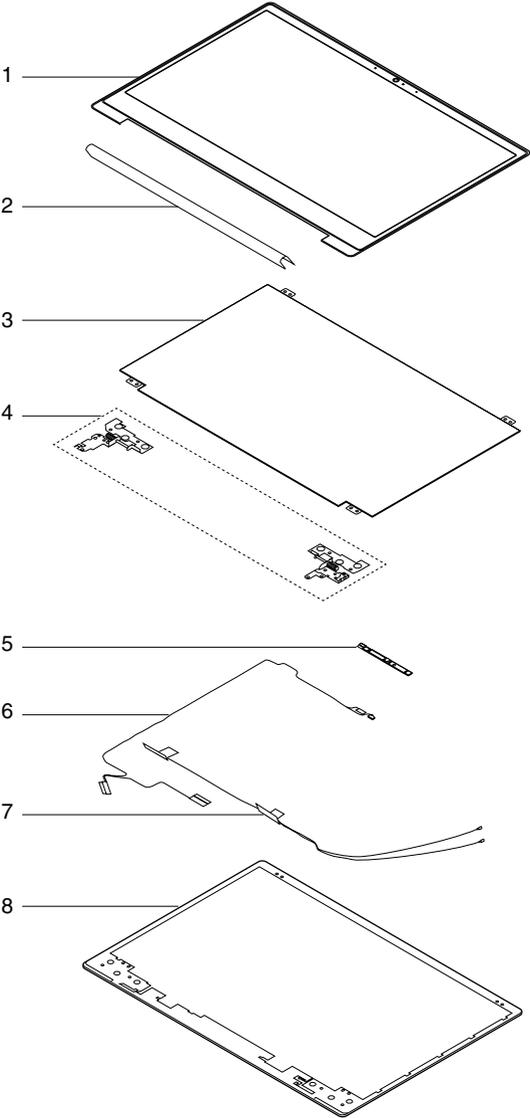


Table 5. Parts list—LCD FRUs

No.	FRU	FRU no.	CRU ID.
1	LCD Bezel W 81AG	5B30P26353	N
2	Hinge Cover W 81AG	5CB0P26399	
3	IN N156BGA-EA3 C1 HDT AG S NB	5D10M42885	
3	BO NT156WHM-N45 V8.0 HDT AG S NB	5D10M42874	
3	AU B156HAN02.1 1A FHDI AG S NB	5D10M53949	
3	IN N156HCA-EAA C1 FHDI AG S NB	5D10M43965	
3	LG LP156WF9-SPK2 FHDI AG S NB	5D10M55963	
4	Hinge W 81AG R+L	5H50P26387	
5	Camera W 81AG W/Gasket	5C20P26312	
5	BIS BNCT1NKSK HD NB camera	SC20M52081	
5	CCY CNFGH43 HD NB camera	SC20M52090	
5	LTN 6SF112N2 HD NB camera	SC20M52113	
5	AVC HAA-8F4A04 HD NB camera	SC20M52091	
6	EDP Cable W 81AG	5C10P26350	
7	Antenna W 81AG Main/AUX	5A30P26295	
8	LCD Cover W 81AG	5CB0P26346	

Miscellaneous parts

Table 6. Parts list—Miscellaneous parts

FRU	FRU no.	CRU ID.
System miscellaneous parts:		
• (a) HDD Bracket W 81AG	5B40P26258	N
• (b) FP Bracket W 81AG	5B40P26334	
Note: Letters in parentheses are references to the exploded view in "Overall" on page 67.		

AC adapters

Table 7. Parts list—AC adapters

FRU	P/N	CRU ID.
Delta ADLX90NDC3A 20V4.5A COO (WW)	SA10M42754	*
Liteon ADLX90NLC3A 20V4.5A AD BIS (WW)	5A10J75109	
Chicony ADLX90NCC3A 20V4.5A COO (WW)	SA10M42797	

Screws

Table 8. Parts list—screws

FRU	P/N	CRU ID.
Screw Pack W 81AG	5S10P26361	N

Power cord

Table 9. Parts list—power cord

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	

Table 9. Parts list—power cord (continued)

FRU	P/N	CRU ID.
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	
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 VA2073+H03VV-F+VAC5S 1m	145000528	
VOLEX MP232+H03VV-F+VAC5S 1m	145000524	
VOLEX CH10S3+H03VV-F+VAC5S 1m	145000527	
VOLEX SI16S3+H03VV-F+VAC5S 1m	145000526	
Volex US15S3+SPT-2 +VAC5S 1m	145000537	
VOLEX MP5004+H03VV-F+VAC5S 1m	145000605	
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 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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