

March 11th, 2022

Dynabook Laptop Components Classified as Requiring Selective Treatment

Dynabook would like to communicate the method of identifying and removing components contained in Dynabook notebook products, including but not limited to the **Portege X30-J** model, that requires selective treatment based on the European WEEE Directive, Directive 2012/19/EU of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE).

All of the instructions provided within this letter can be reviewed in greater detail within the **Portege X30-J** Series **Maintenance Manual**.

Tools Required

In order to remove internal components of the **Portege X30-J** some tools from the list below may be required located in **Chapter 4 Replacement Procedures** of the **Dynabook Maintenance Manual**

For your safety and the safety of the people around you, it is important that you use Electrostatic Discharge (ESD) equipment. Correctly utilizing of the equipment increases the percentage of successful repairs and saves on the cost of damaged or destroyed parts. The following equipment is required for disassembly and assembly.

- One Philips screwdriver with type 0 bit (for S-THIN HEAD screws)
- One Philips screwdriver with type 1 bit (for screws other than above)
- One flat-blade screwdriver (for removing the CPU)
- Tweezers (for lifting screws)
- ESD mats (lay on work table or floor)
- An ESD wrist strap and heel grounder
- Anti-static carpet or flooring
- Air-ionizers in highly static sensitive areas
- Antenna coaxial cable disconnector
- Special syringe (for applying grease)

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1. Removing the Lithium Ion Battery (Main Battery, No coin cell battery)

Please refer to the information below for instructions regarding the identification and removal of the lithium ion battery. Further maintenance instructions can be found in section 4.4 of the **Portege X30W-J Maintenance Manual**. Some tools are required in order to remove this component. Once removed, these components should be recycled as per local requirements.

To remove the battery, the base assembly must be removed first:

Removing the BASE ASSY

To remove the BASE ASSY or BASE LTE ASSY, follow the steps below and refer to Figure 4-3 and 4-4.

1. Click "Start" – "Power" and then click "Shut down" while holding down the SHIFT key to turn off the power of the computer.

2. Disconnect the AC adapter and other external devices from the computer.

- 3. Turn over the computer.
- 4. Remove the following **screws** securing the BASE ASSY or BASE LTE ASSY.

< non 5G/LTE model >

- □ M2.5□4B FLAT HEAD screw □4 (Described as "4" in the Figure 4-3)
- \square M2.5 \square 6B FLAT HEAD screw \square 8 (Described as "6" in the Figure 4-3)

< 5G/LTE (JP) model > □ M2.5□4B TORX HEAD screw □2 (Described as "4" in the Figure 4-4) □ M2.5□6B FLAT HEAD screw □8 (Described as "6" in the Figure 4-4)

< 5G/LTE (US, UK) model >

□ M2.5□4B FLAT HEAD screw □2 (Described as "4" in the Figure 4-4)

□ M2.5□6B FLAT HEAD screw □8 (Described as "6" in the Figure 4-4)

NOTE: When the color of the computer is dark blue, fix the BASE ASSY or BASE LTE ASSY with the dark blue electrodeposition coating screws. When the color of the computer is black, fix the BASE ASSY or BASE LTE ASSY with the black nickel screws.

5. Remove the **BASE ASSY** or BASE LTE ASSY while releasing the latches.





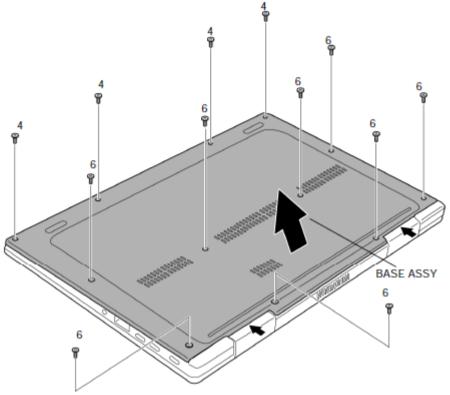


Figure 4-3 Removing the BASE ASSY (1)

< 5G/LTE model >

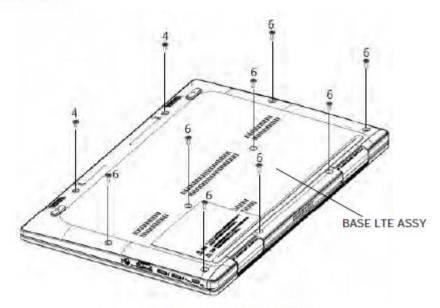


Figure 4-4 Removing the BASE ASSY (2)



Removing the BATTERY PACK

To remove the BATTERY PACK, follow the steps below and refer to Figure 4-5.

CAUTION: When handling the BATTERY PACK, be careful not to short circuit the terminals. Also do not drop, hit, apply impact, scratch, break, twist or bend the BATTERY PACK.

1. Peel off the INSU SQUARE.

2. Disconnect the **BATTERY HARNESS** from the connector **CN8021** on the SYSTEM BOARD.

3. Remove the following **screws** and the **BATTERY PACK**.

 \Box M2 \Box 4C S-THIN HEAD screw \Box 2

CAUTION: The replaced battery must be disposed according to the laws and ordinances of your local authority.

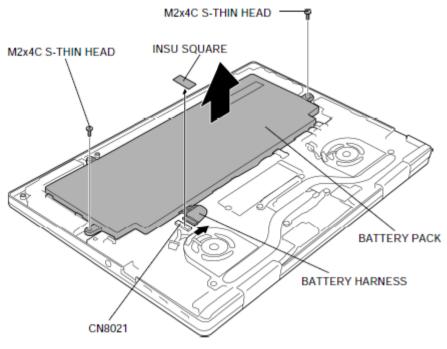


Figure 4-5 Removing the BATTERY PACK



2. Removing the SSD

To remove the SSD the **mainboard** must be removed **first**. Please refer to the information listed in section **4.12** of the **Portege X30W-J Series Maintenance Manual** to check how the mainboard is removed.

Please refer to the information below for the removal of the SSD.

One Philips screwdriver with type 1 bit will be required to remove the screws indicated in the locations below. Once removed, these components should be recycled as per local requirements.

Removing the SSD

To remove the SSD, follow the steps below and refer to Figure 4-14.

1. Remove the following **screw** and disconnect the **SSD** from the connector **CN1900** on the SYSTEM BOARD.

□ M2 □ 2.5 FLAT HEAD DANTUKI screw □1

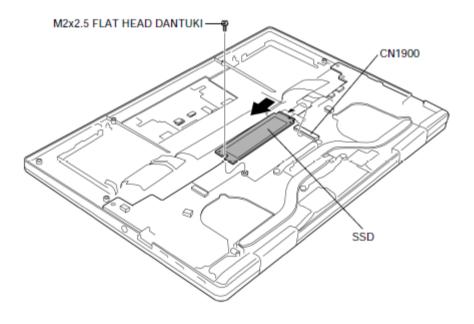


Figure 4-14 Removing the SSD



3. Removing the LCD and Printed Circuit / Wiring Boards

Beside the LCD and the main PCB, there are further **small PCBs and components** which are in the scope of the WEEE Directive. The removal of these components is described in detail in the **chapter 4** of the associated maintenance manual.

Replacement Procedures

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4.4 BASE ASSY

Removing the BASE ASSY

To remove the BASE ASSY or BASE LTE ASSY, follow the steps below and refer to Figure 4-3 and 4-4.

- 1. Click "Start" "Power" and then click "Shut down" while holding down the SHIFT key to turn off the power of the computer.
- 2. Disconnect the AC adapter and other external devices from the computer.
- 3. Turn over the computer.
- 4. Remove the following **screws** securing the BASE ASSY or **BASE LTE ASSY**.

< non 5G/LTE model >

• M2.5×4B	FLAT HEAD screw	\times 4 (Described as "4" in the Figure 4-3)
• M2.5×6B	FLAT HEAD screw	imes8 (Described as "6" in the Figure 4-3)
< 5G/LTE (JP) mod	lel >	

- M2.5×4B TORX HEAD screw ×2 (Described as "4" in the Figure 4-4)
- M2.5×6B FLAT HEAD screw ×8 (Described as "6" in the Figure 4-4)

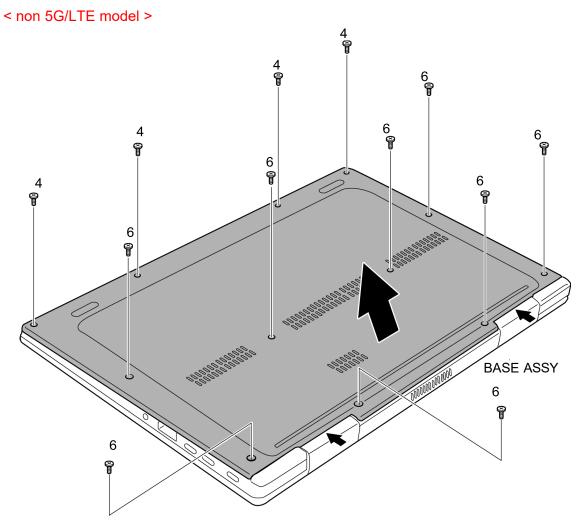
< 5G/LTE (US, UK) model >

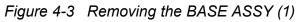
- M2.5×4B FLAT HEAD screw ×2 (Described as "4" in the Figure 4-4)
- M2.5×6B FLAT HEAD screw ×8 (Described as "6" in the Figure 4-4)

NOTE: When the color of the computer is dark blue, fix the BASE ASSY or BASE LTE ASSY with the dark blue electrodeposition coating screws. When the color of the computer is black, fix the BASE ASSY or BASE LTE ASSY with the black nickel screws.

5. Remove the **BASE ASSY** or **BASE LTE ASSY** while releasing the latches.

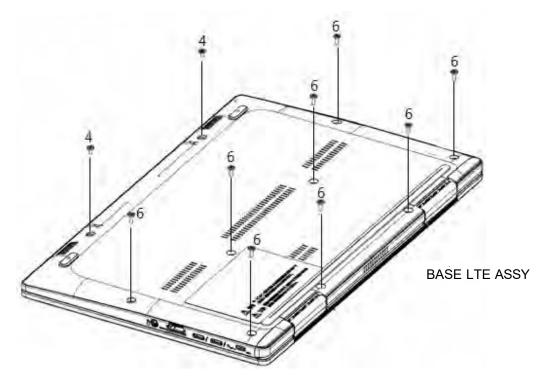


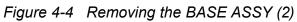






< 5G/LTE model >



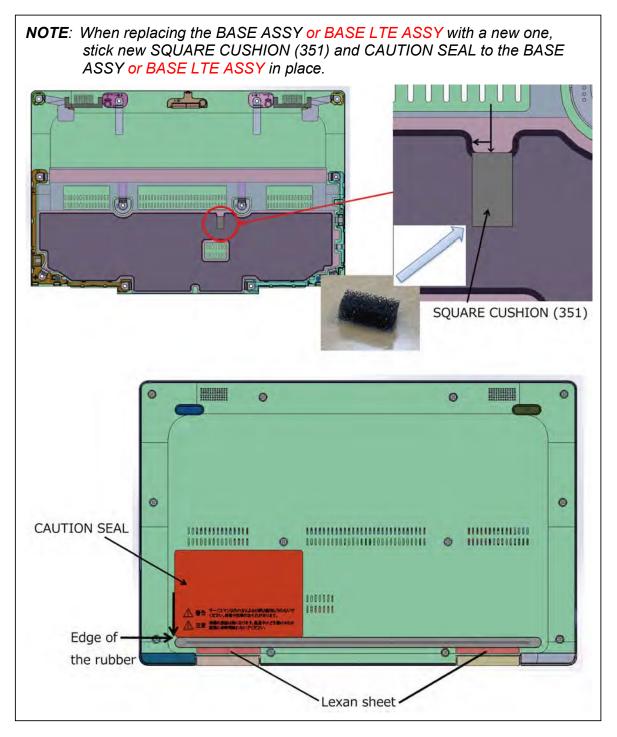


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Installing the BASE ASSY

To install the BASE ASSY or BASE LTE ASSY, follow the steps below and refer to Figure 4-3 and 4-4.



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1. Set the **BASE ASSY** or **BASE LTE ASSY** to the COVER ASSY and secure it with the following **screws**.

< non 5G/LTE model >

•	M2.5×4B	FLAT HEAD screw	\times 4 (Described as "4" in the Figure 4-3)
٠	M2.5×6B	FLAT HEAD screw	imes8 (Described as "6" in the Figure 4-3)
< 5G/	LTE (JP) mode	9l >	
•	M2.5×4B	TORX HEAD screw	\times 2 (Described as "4" in the Figure 4-4)
•	M2.5×6B	FLAT HEAD screw	$\times 8$ (Described as "6" in the Figure 4-4)
< 5G/	LTE (US, UK)	model >	
•	M2.5×4B	FLAT HEAD screw	×2 (Described as "4" in the Figure 4-4)
•	M2.5×6B	FLAT HEAD screw	×8 (Described as "6" in the Figure 4-4)

Prepare required parts in advance, when replacing the following items.

ITEM	Parts List ITEM No	PART NAME	Quantity		
			Non 5G/LTE	LTE	5G
BASE ASSY	40	BASE ASSY	1	0	0
		BASE LTE ASSY	0	1	1
		SQUARE CUSHION (351)	1	1	1
	90,91	CAUTION SEAL	1	1	1



4.5 BATTERY PACK

Removing the BATTERY PACK

To remove the BATTERY PACK, follow the steps below and refer to Figure 4-5.

CAUTION: When handling the BATTERY PACK, be careful not to short circuit the terminals. Also do not drop, hit, apply impact, scratch, break, twist or bend the BATTERY PACK.

- 1. Peel off the INSU SQUARE.
- 2. Disconnect the **BATTERY HARNESS** from the connector **CN8021** on the SYSTEM BOARD.
- 3. Remove the following **screws** and the **BATTERY PACK**.

CAUTION: The replaced battery must be disposed according to the laws and ordinances of your local authority.

• M2×4C S-THIN HEAD screw

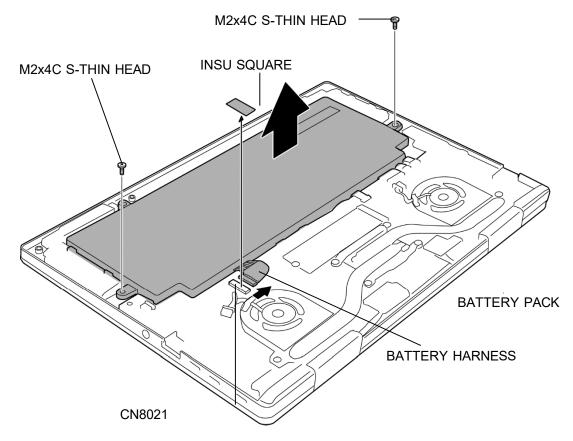


Figure 4-5 Removing the BATTERY PACK



Installing the BATTERY PACK

To install the BATTERY PACK, follow the steps below and refer to Figure 4-5.

CAUTION: The BATTERY PACK is a lithium ion battery, which can explode if not properly replaced, used, handled or disposed of. For environmental reasons, collect the spent BATTERY PACKs. Use only batteries recommended by our company for replacements.

- 1. Set the **BATTERY PACK** to the COVER ASSY and secure it with the following <u>screws.</u>
 - M2×4C S-THIN HEAD screw ×2
- 2. Connect the **BATTERY HARNESS** to the connector **CN8021** on the SYSTEM BOARD.
- 3. Stick the **INSU SQUARE** in place.

4.6 SPEAKER

Removing the SPEAKER

To remove the SPEAKER, follow the steps below and refer to Figure 4-6 to 4-8.

- 1. Disconnect the **FP FFC** (finger print sensor model) and **CPAD FFC** from the connectors on the CLICK PAD.
- 2. Disconnect the **FP FFC** (finger print sensor model) and **CPAD FFC** from the connectors **CN9550** and **CN9510** on the SYSTEM BOARD.

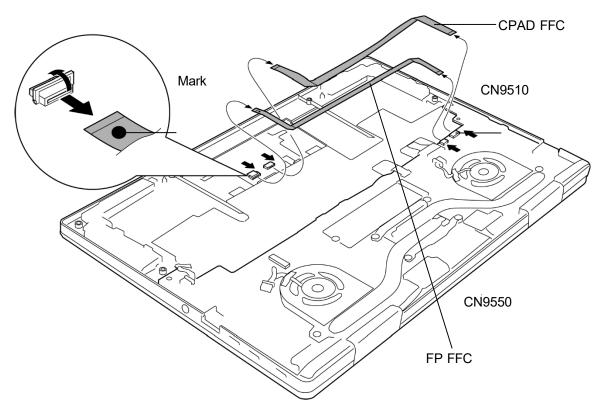
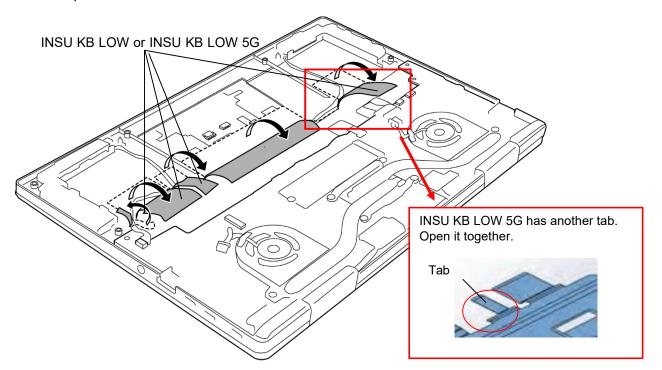


Figure 4-6 Removing the SPEAKER (1)



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3. Open the INSU KB LOW or INSU KB LOW 5G.





- 4. Disconnect the **SPEAKER HARNESS** from the connector **CN6290** on the SYSTEM BOARD.
- 5. Remove the **SPEAKER** or **SPEAKER 5G** (left and right) from the slots of the COVER ASSY.

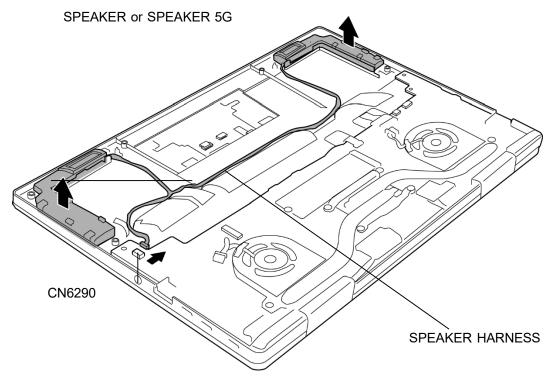
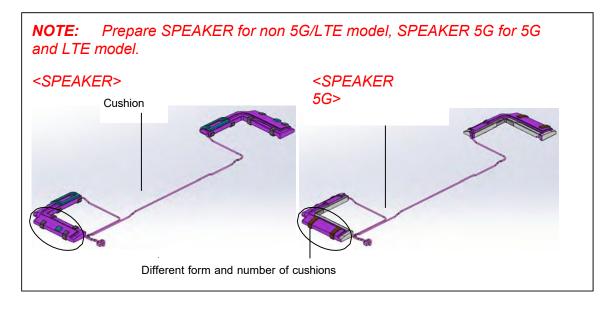


Figure 4-8 Removing the SPEAKER (3)



Installing the SPEAKER

To install the SPEAKER, follow the steps below and refer to 4-6 to 4-8.



- 1. Set the **SPEAKER** or **SPEAKER 5G** (left and right) to the slots of the COVER ASSY.
- 2. Arrange the **SPEAKER HARNESS** in place and fix it with the **INSU KB LOW** or **INSU KB LOW 5G.**
- 3. Connect the **SPEAKER HARNESS** to the connector **CN6290** on the SYSTEM BOARD.
- 4. Connect the **FP FFC** (finger print sensor model) and **CPAD FFC** to the connectors **CN9550** and **CN9510** on the SYSTEM BOARD.
- 5. Connect the marked side of the **FP FFC** (finger print sensor model) and **CPAD FFC** to the connectors on the CLICK PAD.

4.7 5G/LTE MODULE

Removing the 5G/LTE MODULE

To remove the 5G/LTE MODULE, follow the steps below and refer to Figure 4-9.

- 1. Peel off the INSU SQUARE on the 5G MODULE or LTE MODULE.
- 2. Disconnect the **ANTENNA CABLEs** (4 cables for 5G model, 2 cables for LTE model) from the connectors on the **5G MODULE** or **LTE MODULE**.
- 3. Remove the following **screw** and disconnect **5G MODULE** from the connector **CN2610** or **LTE MODULE** from the connector **CN2600** on the SYSTEM BOARD.
 - M2×2.3C S-THIN HEAD screw ×1

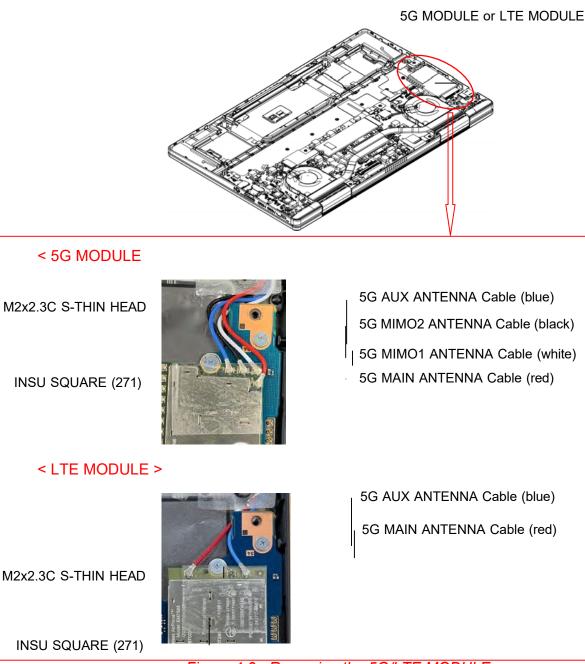


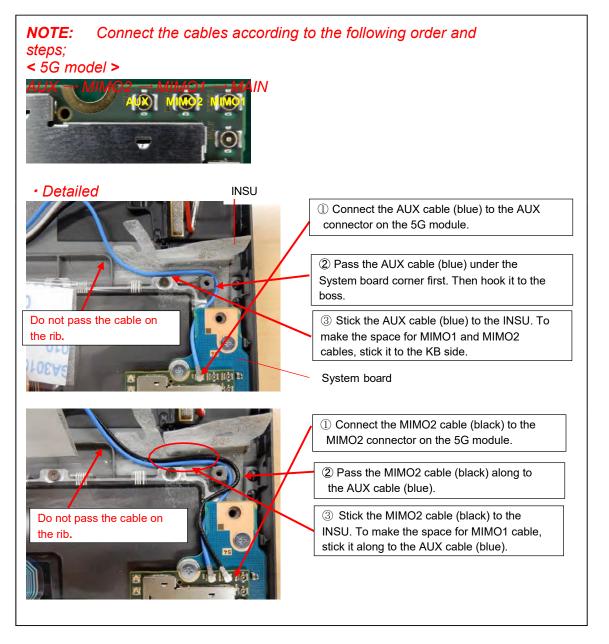
Figure 4-9 Removing the 5G/LTE MODULE

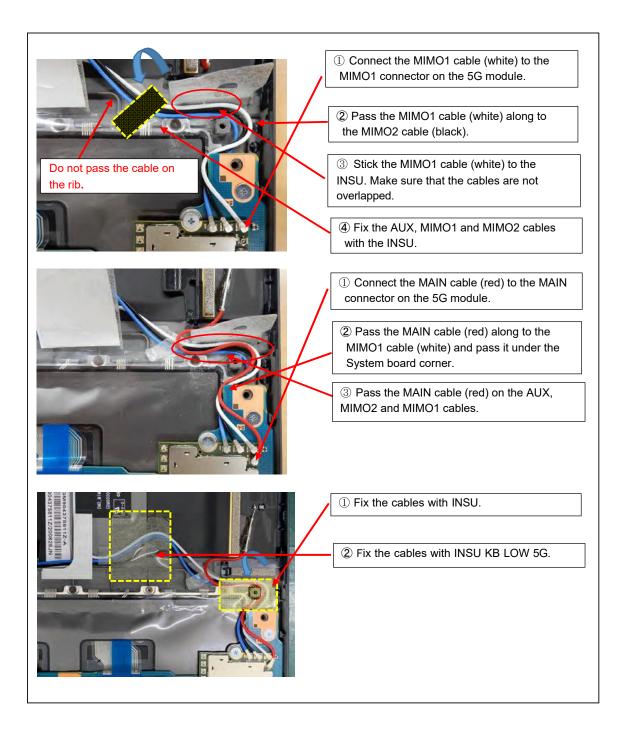


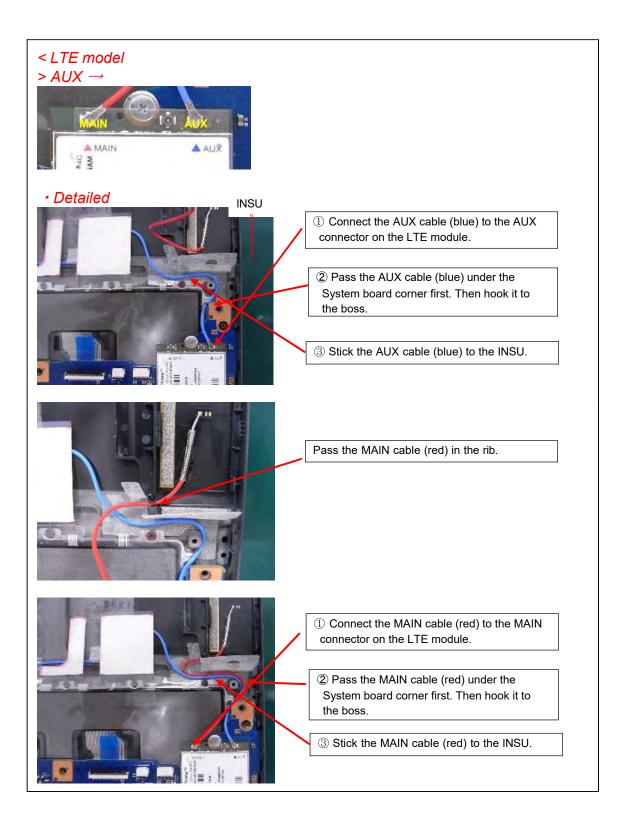
Installing the 5G/LTE MODULE

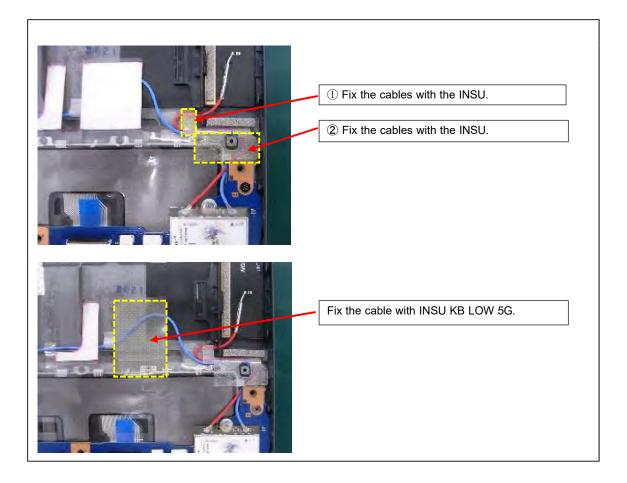
To install the 5G/LTE MODULE, follow the steps below and refer to Figure 4-9.

- Connect the 5G MODULE to the connector CN2610 or LTE MODULE to the connector CN2600 on the SYSTEM BOARD and secure it with the following screw.
 - M2×2.3C S-THIN HEAD screw ×1
- 2. Connect the **ANTENNA CABLEs** (4 cables for 5G model, 2 cables for LTE model) to the connectors on the **5G MODULE** or **LTE MODULE**

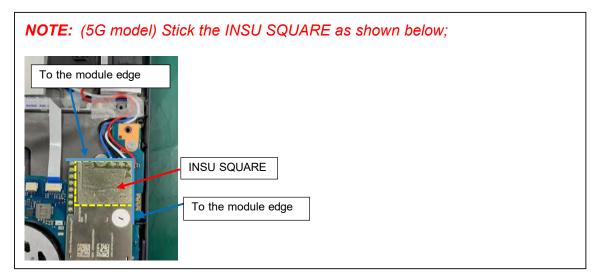








3. Stick the INSU SQUARE to the 5G MODULE or LTE MODULE



4.8 5G/LTE ANTENNA

Removing the 5G/LTE ANTENNA

To remove the 5G/LTE ANTENNA, follow the steps below and refer to Figure 4-10 to 4-12.

- 1. Press the latch to the arrow direction to release.
- 2. Pull up the **GASKET HOLDER**.
- 3. Release the latch and remove the **GASKET HOLDER**.

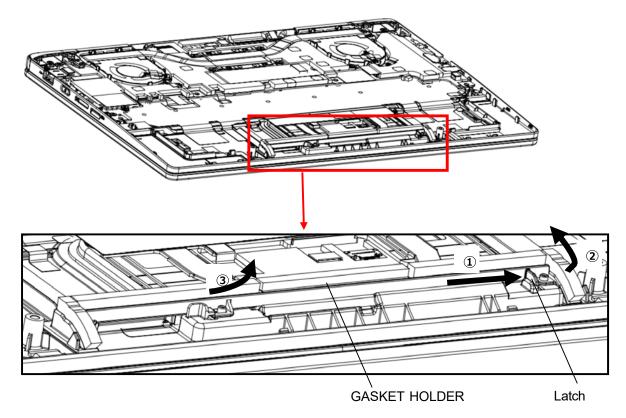


Figure 4-10 Removing the 5G/LTE ANTENNA (1)



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4. Remove the **5G ANTENNA SPACER**s and the **INSU SQUARE**s. Turn up the **INSU ANT HOLD.**

NOTE: Do not reuse the removed INSU SQUAREs. Be sure to use new ones.

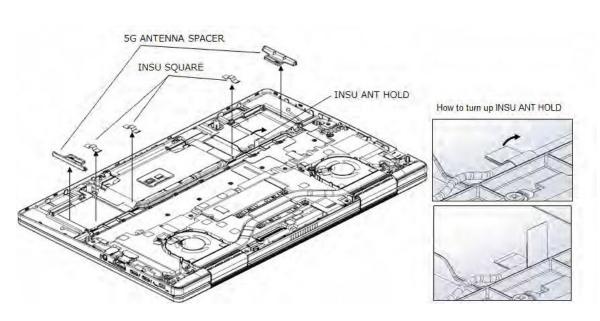


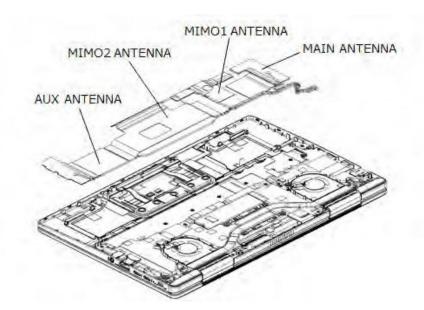
Figure 4-11 Removing the 5G/LTE ANTENNA (2)

 (5G model) Remove the MAIN ANTENNA, AUX ANTENNA, MIMO1 ANTENNA and MIMO2 ANTENNA.
(LTE model) Remove the MAIN ANTENNA and AUX ANTENNA.

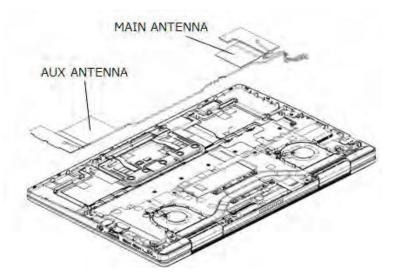
NOTE: Do not reuse the removed ANTENNAs. Be sure to use new ones.

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< 5G model >



< LTE model >







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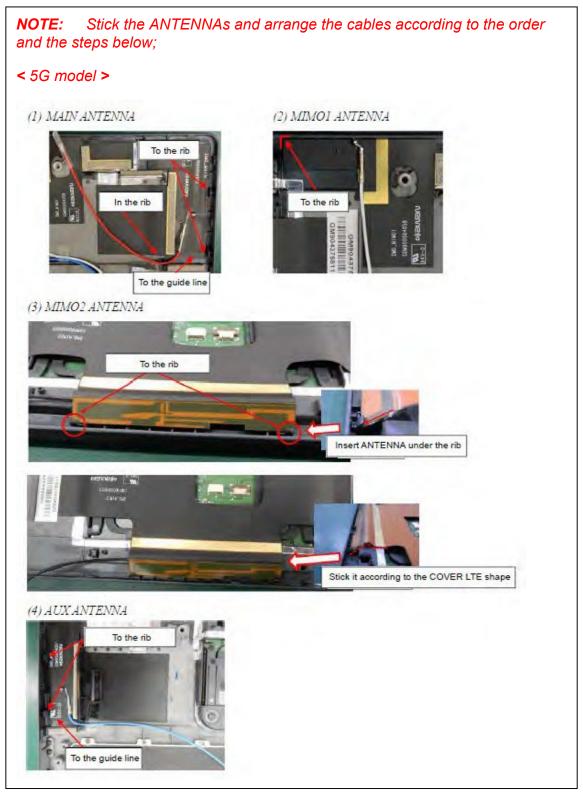
Installing the 5G/LTE MODULE

To install the 5G/LTE MODULE, follow the steps below and refer to Figure 4-10 to 4-12.

1. (5G model) Stick the MAIN ANTENNA, AUX ANTENNA, MIMO1 ANTENNA and MIMO2 ANTENNA to the COVER ASSY and arrange the cables in place.

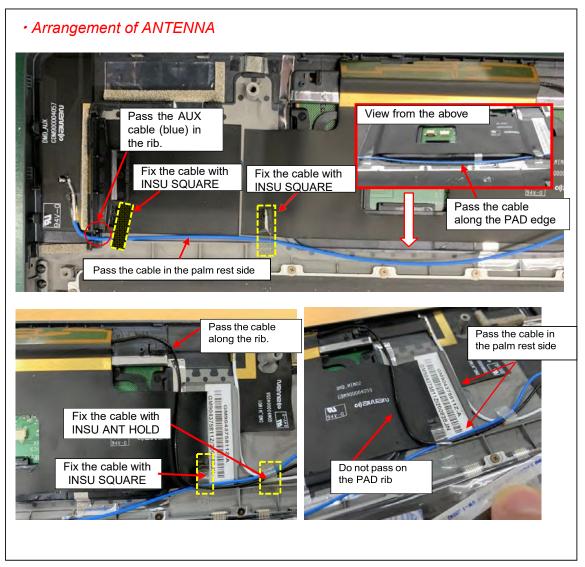
(LTE model) Stick the **MAIN ANTENNA** and **AUX ANTENNA** to the **COVER ASSY** in place and arrange the cables in place.

2. Stick the **5G ANTENNA SPACER**s and the **INSU SQUARE**s in place. Close the **INSU ANT HOLD.**

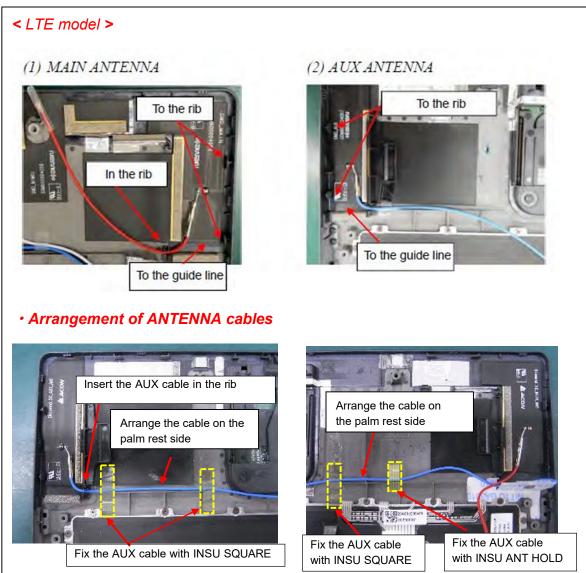




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3. Set the **GASKET HOLDER** in place firmly.

Prepare required parts in advance, when replacing the following items.

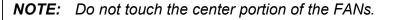
ITEM	Parts List ITEM No	PART NAME	Quantity		
			Non 5G/LTE	LTE	5G
5G/LTE ANTENNA		MAIN ANTENNA	0	1	1
		AUX ANTENNA	0	1	1
		MIMO1 ANTENNA	0	0	1
		MIMO2 ANTENNA	0	0	1
		INSU SQUARE(111)	0	3	3

4.9 FAN

Removing the FAN

To remove the FAN, follow the steps below and refer to Figure 4-13.

- 1. Disconnect the **FAN R HARNESS** from the connector **CN3380** on the SYSTEM BOARD.
- 2. Remove the following screws and the FAN R.
 - M2×4C S-THIN HEAD screw ×2
- 3. Disconnect the **FAN L HARNESS** from the connector **CN3390** on the SYSTEM BOARD.
- 4. Remove the following screws and the FAN L.
 - M2×4C S-THIN HEAD screw ×2



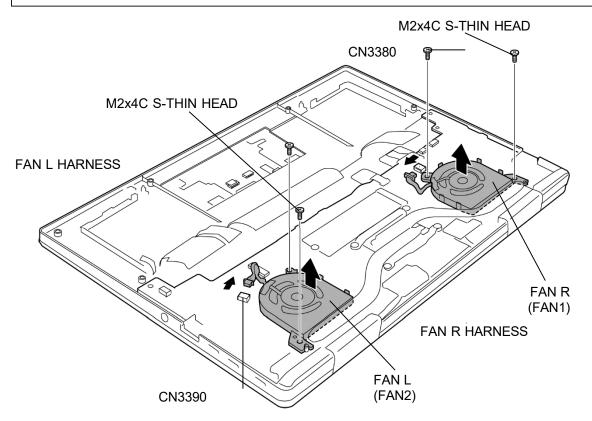


Figure 4-13 Removing the FAN



Installing the FAN

To install the FAN, follow the steps below and refer to Figure 4-13.

- 4. Set the **FAN R** to the COVER ASSY and secure it with the following **screws**.
 - M2×4C S-THIN HEAD screw ×2
- 3. Connect the FAN R HARNESS to the connector CN3380 on the SYSTEM BOARD.
- 4. Set the **FAN L** to the COVER ASSY and secure it with the following **screws**.
 - M2×4C S-THIN HEAD screw ×2
- 4. Connect the FAN L HARNESS to the connector CN3390 on the SYSTEM BOARD.

4.10 SSD

CAUTION: Take care not to press on the top or bottom of the SSD. Pressure may cause data loss or damage to the device.

Removing the SSD

To remove the SSD, follow the steps below and refer to Figure 4-14.

1. Remove the following **screw** and disconnect the **SSD** from the connector **CN1900** on the SYSTEM BOARD.

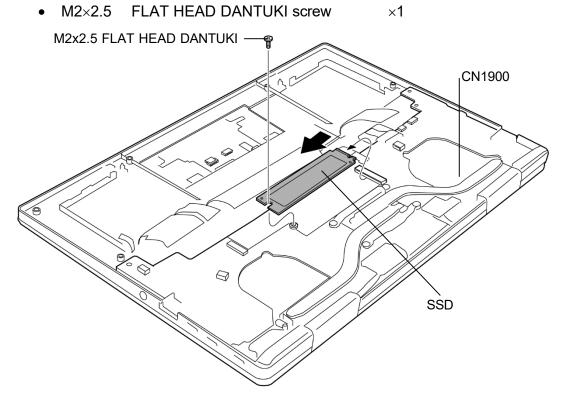


Figure 4-14 Removing the SSD



Installing the SSD

To install the SSD, follow the steps below and refer to Figure 4-14.

- 1. Insert the **SSD** to the connector **CN1900** on the SYSTEM BOARD.
- 2. Secure the SSD with the following **screw**.
 - M2×2.5 FLAT HEAD DANTUKI screw ×1



4.11 HEAT SINK

Removing the HEAT SINK

To remove the HEAT SINK, follow the steps below and refer to Figure 4-15.

- 1. Remove the following screws and the HEAT SINK.
 - M2×2.3C S-THIN HEAD screw ×4

NOTE: When removing the HEAT SINK, be sure to remove the screws in the reverse order of the number marked on the HEAT SINK.

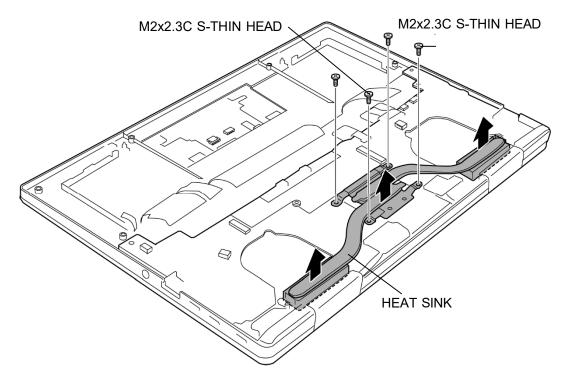


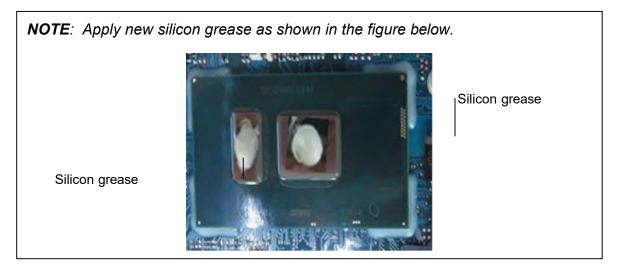
Figure 4-15 Removing the HEAT SINK



Installing the HEAT SINK

To install the HEAT SINK, follow the steps below and refer to Figure 4-15.

- 1. When silicon grease is already applied to the CPU or HEAT SINK, wipe them off with a cloth in advance.
- 2. Apply new **silicon grease** (Shin-Etsu Chemical Co. X-23-7921-5) on the CPU using a special syringe.

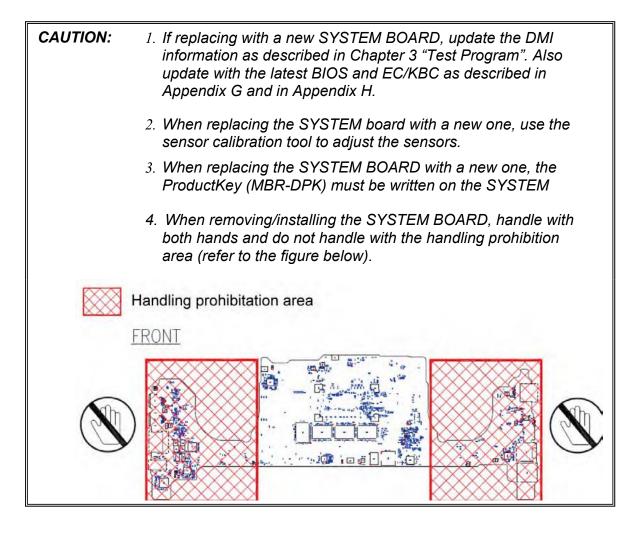


- 3. Set the **HEAT SINK** in place and secure it with the following **screws**.
 - M2×2.3C S-THIN HEAD screw ×4

NOTE: When securing the HEAT SINK, be sure to secure the screws in the order of the number marked on the HEAT SINK.



4.12 SYSTEM BOARD





Removing the SYSTEM BOARD

To remove the SYSTEM BOARD, follow the steps below and refer to Figure 4-16 and 4-17.

- Disconnect the KB BL FPC (back light KB model), KB MEMBRANE and LID HARNESS from the connector CN3270, CN3260 and CN3290 on the SYSTEM BOARD.
- 2. Turn up the **INSUs** and disconnect the **CAMERA HARNESS** from the connector **CN9540** on the SYSTEM BOARD.
- Disconnect the W-LAN ANTENNA CABLEs from the connectors on the W-LAN MODULE. (white cable from "▲MAIN 2" and black cable from "△AUX 1")
- 4. Release the **lock bar** and disconnect the **LCD HARNESS** from the connector **CN5390** on the SYSTEM BOARD.
- 5. Disconnect the **REAR CAMERA FPC** from the connector **CN9560** on the SYSTEM BOARD.

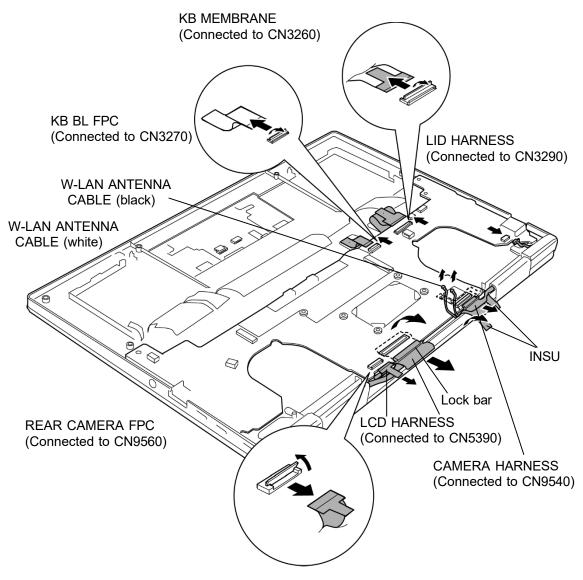


Figure 4-16 Removing the SYSTEM BOARD (1)

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6. Remove the following **screws** and the **SYSTEM BOARD**.

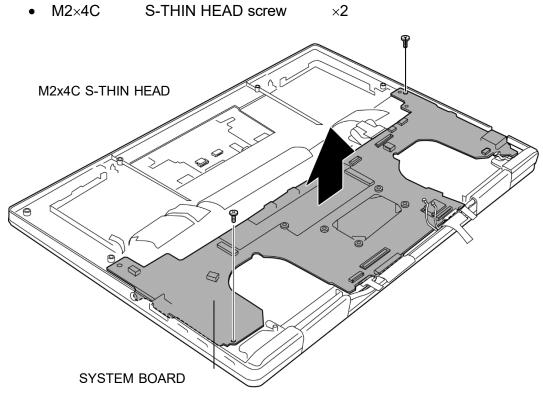
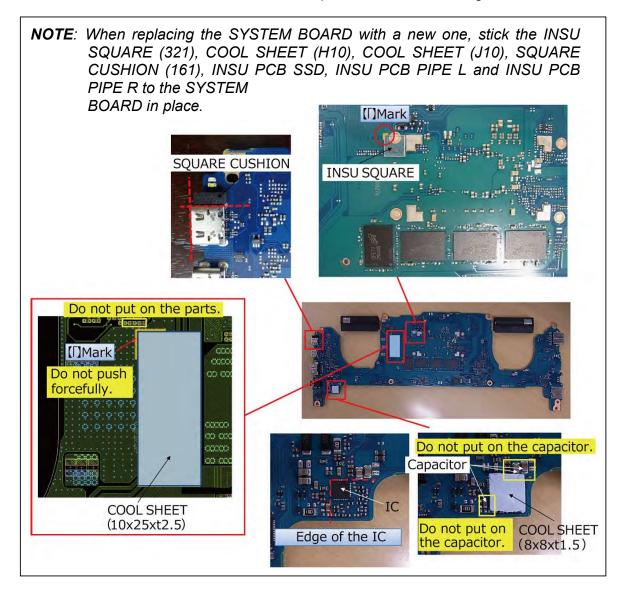


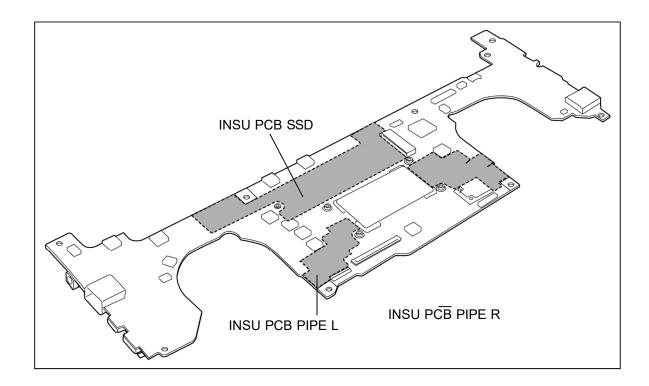
Figure 4-17 Removing the SYSTEM BOARD (2)

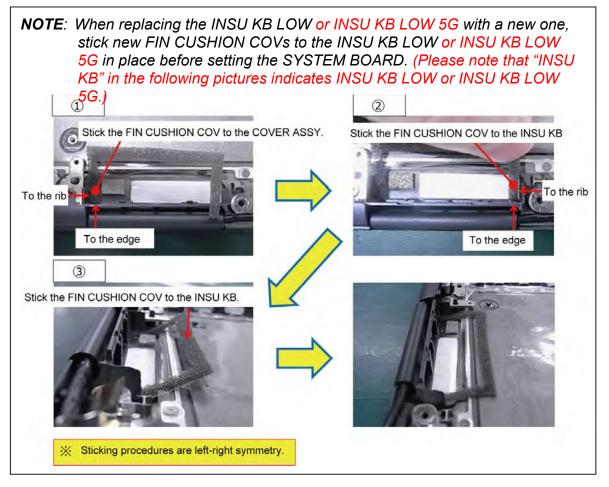


Installing the SYSTEM BOARD

To install the SYSTEM BOARD, follow the steps below and refer to Figure 4-16 and 4-17.



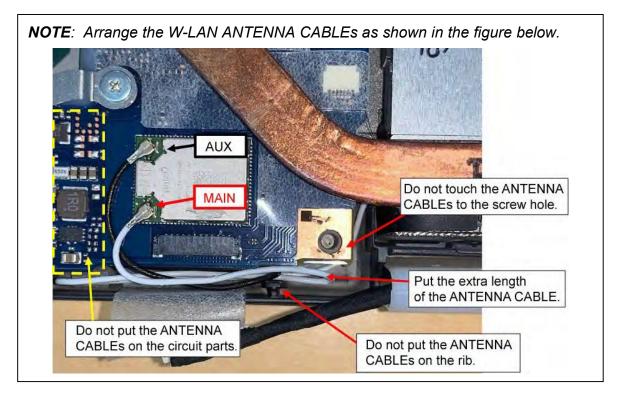




- 1. Set the **SYSTEM BOARD** to the COVER ASSY in place and secure it with the following **screws**.
 - M2×4C S-THIN HEAD screw ×2
- 2. Connect the **REAR CAMERA FPC** to the connector **CN9560** on the SYSTEM BOARD.
- 3. Connect the **LCD HARNESS** to the connector **CN5390** on the SYSTEM BOARD and fix it with the **lock bar**.

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Connect the W-LAN ANTENNA CABLEs to the connectors on the W-LAN MODULE. (white cable to "▲MAIN 2" and black cable to "△AUX 1")



- 5. Connect the **CAMERA HARNESS** to the connector **CN9540** on the SYSTEM BOARD.
- 6. Close the **INSU**.
- Connect the KB BL FPC (back light KB model), KB MEMBRANE and LID HARNESS to the connector CN3270, CN3260 and CN3290 on the SYSTEM BOARD.

Prepare required parts in advance, when replacing the following Rev.01 items.

ITEM	Parts List	PART NAME	Quantity		
	ITEM No		Non 5G/LTE	LTE	5G
SYSTEM BOARD (MOTHER BOARD ASSY)	01	MOTHER BOARD ASSY	1	1	1
	68	SQUARE CUSHION (161)	1	1	1
	66	COOL SHEET(H10)	1	1	1
	67	COOL SHEET(J10)	1	1	1

4.13 CLICK PAD

Removing the CLICK PAD

To remove the CLICK PAD, follow the steps below and refer to Figure 4-18.

NOTE: (5G model) Remove MIMO2 ANTENNA first before removing the CLICK PAD.

- 1. Peel off the **AL TAPE**.
- 2. Peel off the CLICK PAD from the COVER ASSY.

NOTE: Do not reuse the removed AL TAPE and CLICK PAD. Be sure to use new

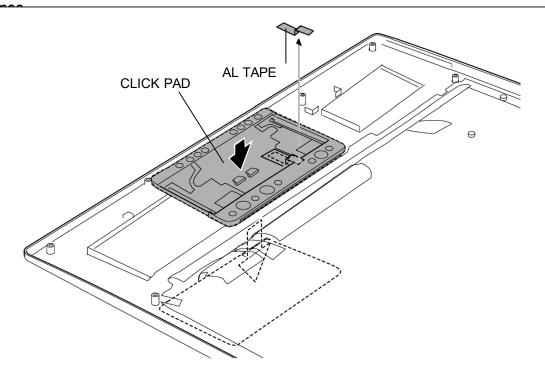


Figure 4-18 Removing the CLICK PAD

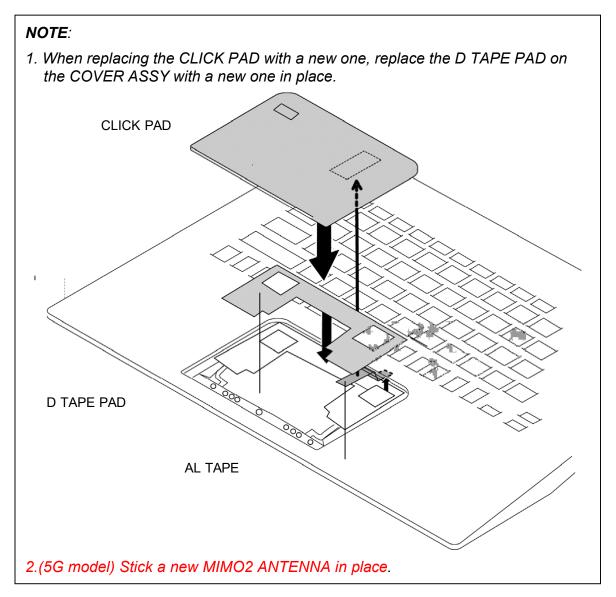
Rev.01



Installing the CLICK PAD

To install the CLICK PAD, follow the steps below and refer to Figure 4-18.

- 1. Stick a new CLICK PAD to the COVER ASSY.
- 2. Turn over the COVER ASSY and stick a new **AL TAPE** in Rev.01 place.



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ITEM	Parts List ITEM No	PART NAME	Quantity		
			Non 5G/LTE	LTE	5G
CLICK PAD		CLICK PAD	1	1	1
	77	AL TAPE	1	1	1
		D TAPE PAD	1	1	1
		MIMO2 ANTENNA	0	0	1

Prepare required parts in advance, when replacing the following items.



4.14 W-LAN ANTENNA

Removing the W-LAN ANTENNA

To remove the W-LAN ANTENNA, follow the steps below and refer to Figure 4-19 and 4-20.

- 1. Open the **INSUs** and release the **W-LAN ANTENNA CABLES**.
- 2. Remove the following **screw** to remove the **CORNER CAP R** (W-LAN MAIN ANTENNA (white cable)).
 - M2×4C S-THIN HEAD screw ×1
- 3. Peel off the W-LAN MAIN ANTENNA (white cable) from the CORNER CAP R.

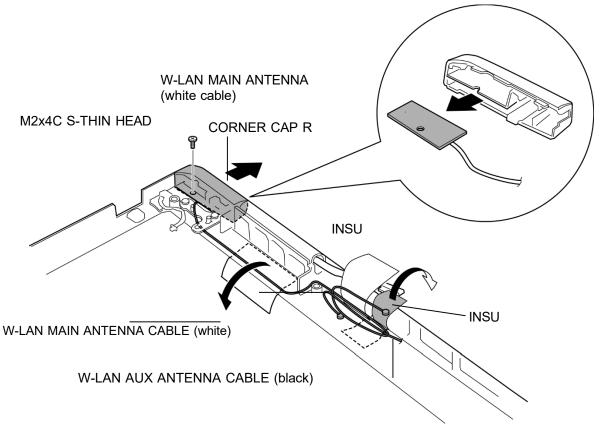


Figure 4-19 Removing the W-LAN ANTENNA (1)

- 4. Open the INSUs and release the W-LAN AUX ANTENNA CABLE (black).
- 5. Remove the following **screw** to remove the **CORNER CAP L** (W-LAN AUX ANTENNA (black cable)).
 - M2×4C S-THIN HEAD screw ×1
- 6. Peel off the W-LAN AUX ANTENNA (black cable) from the CORNER CAP L.

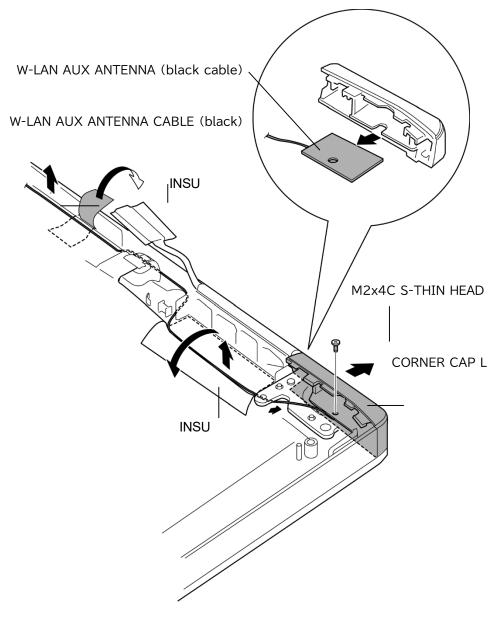


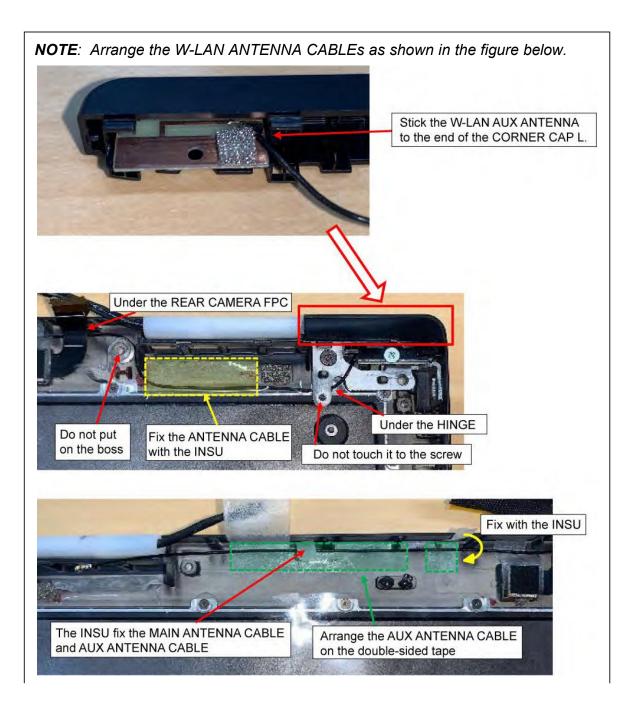
Figure 4-20 Removing the W-LAN ANTENNA (2)

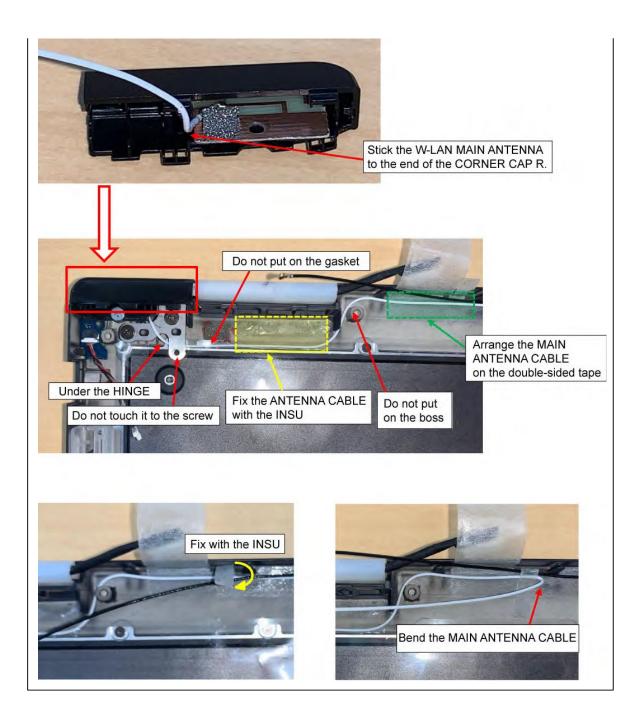


Installing the W-LAN ANTENNA

To install the W-LAN ANTENNA, follow the steps below and refer to Figure 4-19 and 4-20.

- 1. Stick the W-LAN AUX ANTENNA (black cable) to the CORNER CAP L.
- 2. Set the **CORNER CAP L** (W-LAN AUX ANTENNA (black cable)) to the COVER ASSY and secure it with the following **screw**.
 - M2×4C S-THIN HEAD screw ×1
- 3. Stick the W-LAN MAIN ANTENNA (white cable) to the CORNER CAP R.
- 4. Set the **CORNER CAP R** (W-LAN MAIN ANTENNA (white cable)) to the COVER ASSY and secure it with the following **screw**.
 - M2×4C S-THIN HEAD screw ×1
- 5. Arrange the W-LAN ANTENNA CABLEs in place.
- 6. Close the **INSUs**.





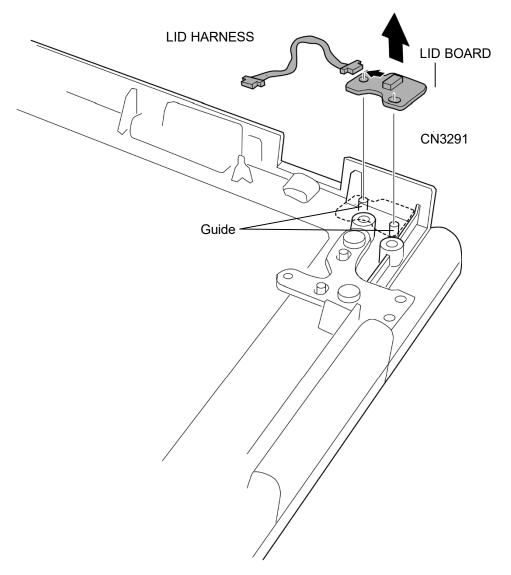


4.15 LID BOARD

Removing the LID BOARD

To remove the LID BOARD, follow the steps below and refer to Figure 4-21.

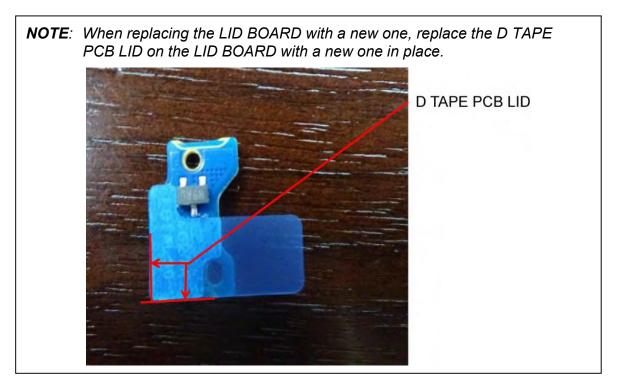
- 1. Peel off the LID BOARD from the guides of the COVER ASSY.
- 2. Disconnect the LID HARNESS from the connector CN3291 on the LID BOARD.





Installing the LID BOARD

To install the LID BOARD, follow the steps below and refer to Figure 4-21.



- 1. Connect the LID HARNESS to the connector CN3291 on the LID BOARD.
- 2. Set the LID BOARD to the guides of the COVER ASSY.

Prepare required parts in advance, when replacing the following items. Rev.01

ITEM	Parts List	PART NAME	Quantity			
	ITEM No		Non 5G/LTE	LTE	5G	
LID BOARD	82	LID BOARD	1	1	1	
	64	D TAPE PCB LID	1	1	1	



4.16 REAR CAMERA MODULE

Removing the REAR CAMERA MODULE

To remove the REAR CAMERA MODULE, follow the steps below and refer to Figure 4-22.

- 1. Open the INSU.
- 2. Remove the **REAR CAMERA MODULE** from the slot of the COVER ASSY.

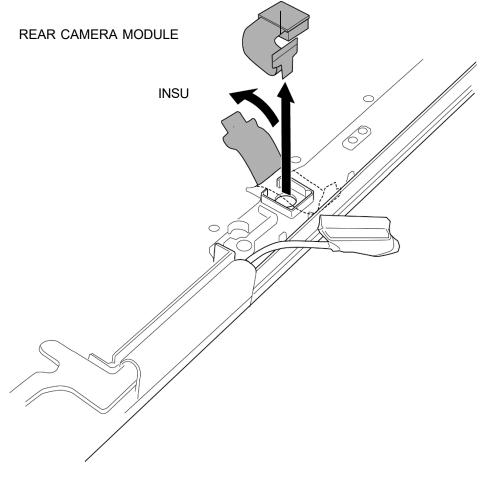


Figure 4-22 Removing the REAR CAMERA MODULE



Installing the REAR CAMERA MODULE

To install the REAR CAMERA MODULE, follow the steps below and refer to Figure 4-22.

- 1. Set the **REAR CAMERA MODULE** to slot of the COVER ASSY.
- 2. Close the **INSU**.



4.17 LCD FAT ASSY/COVER ASSY

Removing the LCD FAT ASSY/COVER ASSY

To remove the LCD FAT ASSY/COVER ASSY, follow the steps below and refer to Figure 4-23.

1. Remove the following screws and separate the LCD FAT ASSY and COVER ASSY.

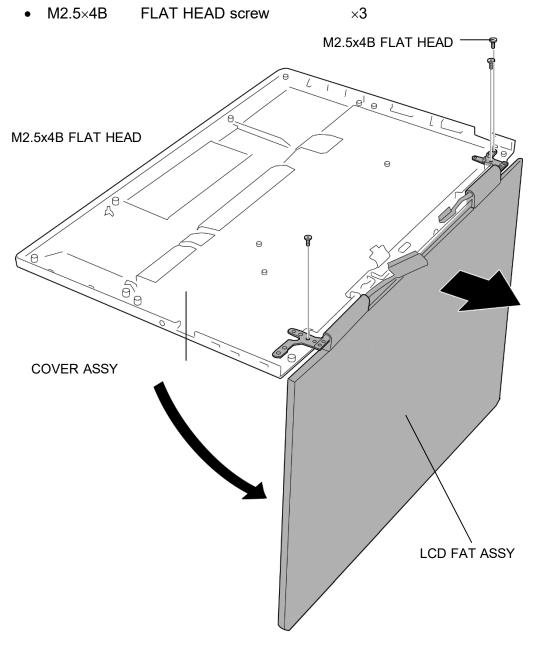
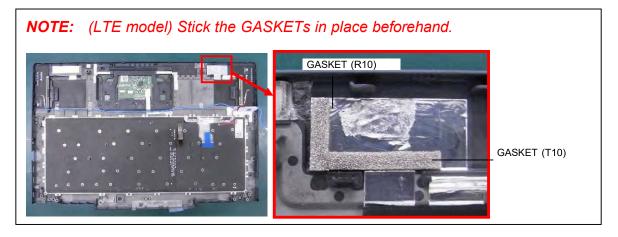


Figure 4-23 Removing the LCD FAT ASSY/COVER ASSY



Installing the LCD FAT ASSY/COVER ASSY



- 1. Set the LCD FAT ASSY to the COVER ASSY and secure it with the following <u>screws.</u>
 - M2.5×4B FLAT HEAD screw ×3

Prepare the required parts in advance, when replacing the following items.

ITEM	Parts List	PART NAME	C	Quantity		
	ITEM No		Non 5G/LTE	LTE	5G	
COVER ASSY	60	COVER ASSY	1	0	0	
		COVER LTE ASSY	0	1	1	
	77	AL TAPE	1	1	1	
		CLICK PAD	1	1	1	
		MAIN ANTENNA	0	1	1	
		AUX ANTENNA	0	1	1	
		MIMO1 ANTENNA	0	0	1	
		MIMO2 ANTENNA	0	0	1	
		GASKET(R10)	0	1	0	
		GASKET(T10)	0	1	0	
	61	INSU KB LOW	1	0	0	
		INSU KB LOW 5G	0	1	1	
		FIN CUSHION COV	2	2	2	
		INSU SQUARE(111)	0	3	3	



4.18 KEYBOARD

Removing the KEYBOARD

To remove the KEYBOARD, follow the steps below and refer to Figure 4-24 and 4-25.

1. Peel off the INSU KB LOW or INSU KB LOW 5G.

NOTE: Do not reuse the removed **INSU KB LOW** or **INSU KB LOW 5G**. Be sure to use a new one.

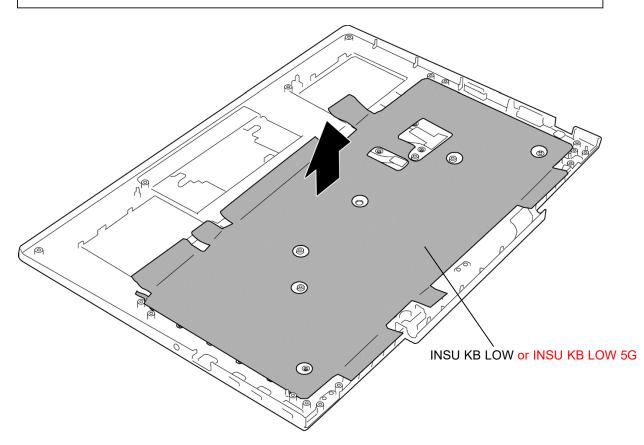
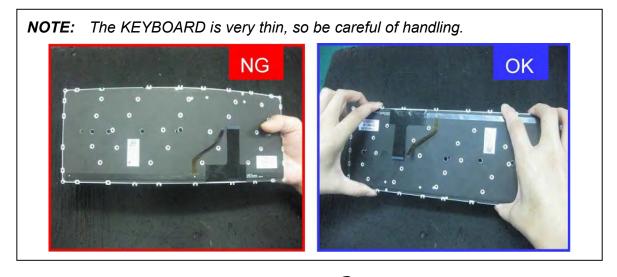


Figure 4-24 Removing the KEYBOARD (1)



- 2. Remove the following **screw** securing the KEYBOARD.
 - M1.2×1.1B S-THIN HEAD screw ×63
- 3. Remove the **KEYBOARD**.



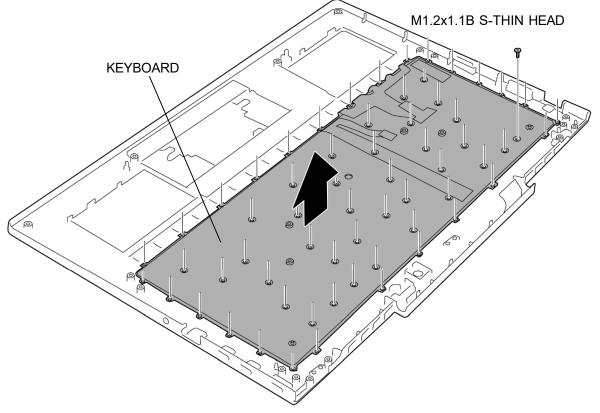


Figure 4-25 Removing the KEYBOARD (2)

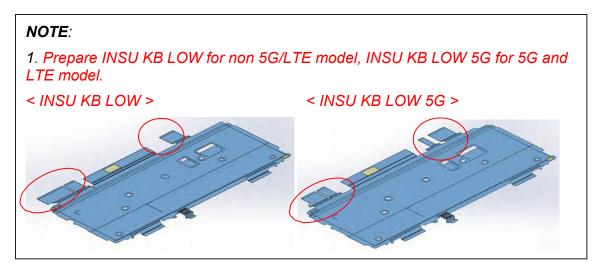


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Installing the KEYBOARD

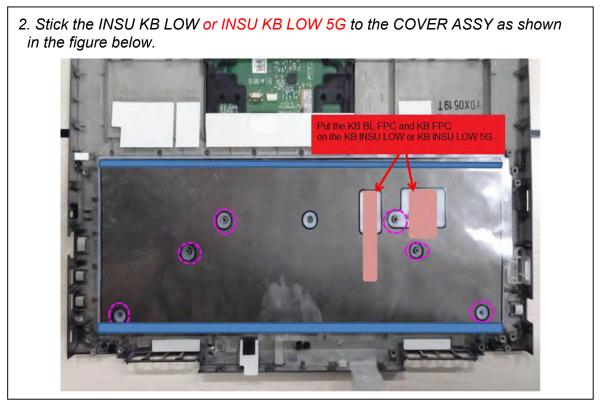
To install the KEYBOARD, follow the steps below and refer to Figure 4-24 and 4-25.

- 1. Set the **KEYBOARD** to the COVER ASSY in place and secure it with the following <u>screws.</u>
 - M1.2×1.1B S-THIN HEAD screw ×63
- 2. Stick a new INSU KB LOW or INSU KB LOW 5G to the COVER ASSY in place.





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Prepare the required parts in advance, when replacing the following items.

ITEM	Parts List ITEM No	PART NAME	Quantity		
			Non 5G/LTE	LTE	5G
KEYBOARD	11	KEYBOARD	1	1	1
	61	INSU KB LOW	1	0	0
		INSU KB LOW 5G	0	1	1
		FIN CUSHION COV	2	2	2



4.19 LCD/CAMERA MODULE

Removing the LCD/CAMERA MODULE

To remove the LCD/CAMERA MODULE, follow the steps below and refer to Figure 4-26 to 4-31.

NOTE: Handel with care of removing/installing the LCD UNIT. Refer to [LCD unit_remove.mp4] file for the details of removing the LCD UNIT.

- 1. Release the latches and remove the LCD LOW CAP ASSY.
- 2. Release the **latches** and peel off the **HINGE CAP L ASSY** and **HINGE CAP R ASSY** from the LCD COVER ASSY.

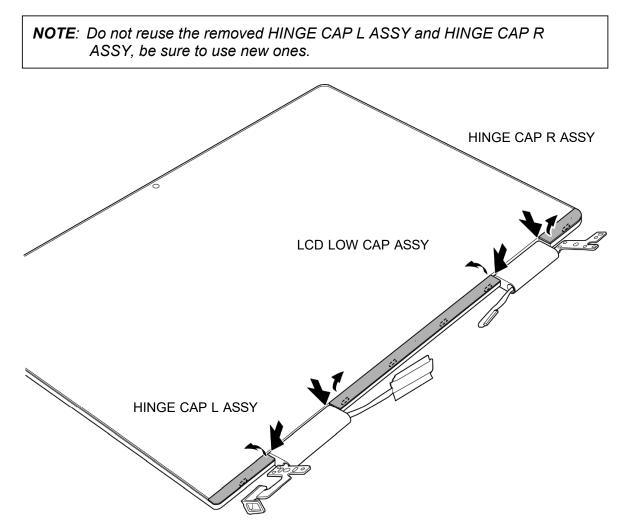


Figure 4-26 Removing the LCD (1)

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- 3. Remove the following **screws** and the **HINGE L/R ASSY** from the LCD COVER ASSY
 - M2.5×2.5C S-THIN HEAD screw ×4
- 4. Release the LCD HARNESS and CAMERA HARNESS from the HINGE L/R ASSY.

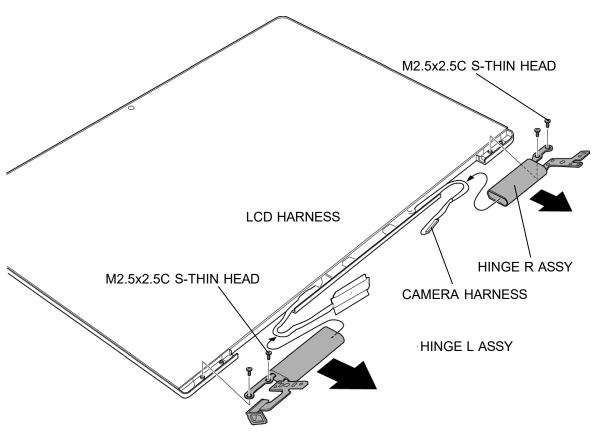
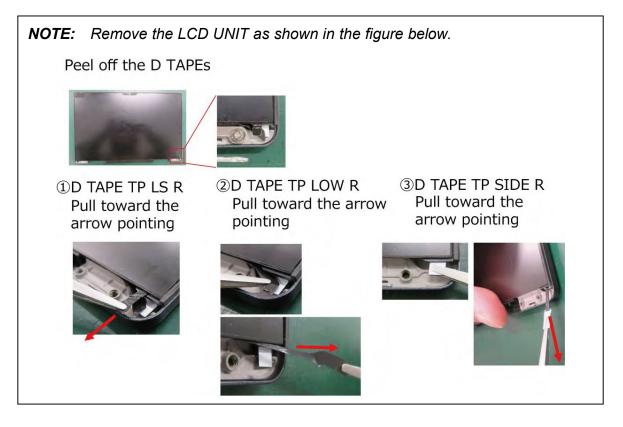


Figure 4-27 Removing the LCD (2)



- 5. Pull the **D TAPE TP LS R**, **D TAPE TP LOW R** and **D TAPE TP SIDE R** to the arrow pointing.
- 6. Pull the **D TAPE TP LS L**, **D TAPE TP LOW L** and **D TAPE TP SIDE L** to the arrow pointing.
- 7. Pull the **D TAPE TP L CE** to the arrow pointing.
- 8. Peel the **3AXIS SENSOR BOARD**.
- 9. Close the **SHUTTER SWITCH**.
- 10. Peel the **LCD UNIT** slowly.





④D TAPE TP LS L Pull toward the arrow pointing

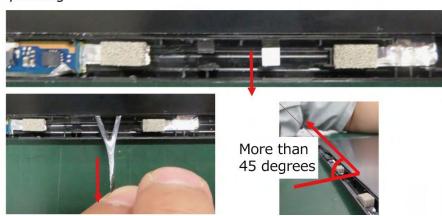


⑤D TAPE TP LOW L Pull toward the arrow pointing

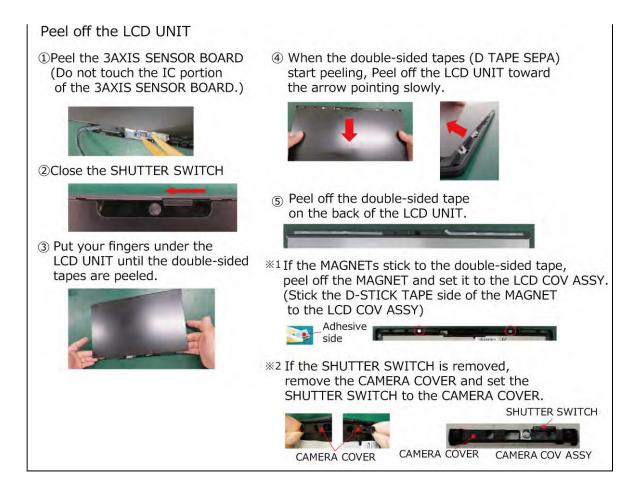


⑦D TAPE TP L CE Pull toward the arrow pointing ©D TAPE TP SIDE L Pull toward the arrow pointing









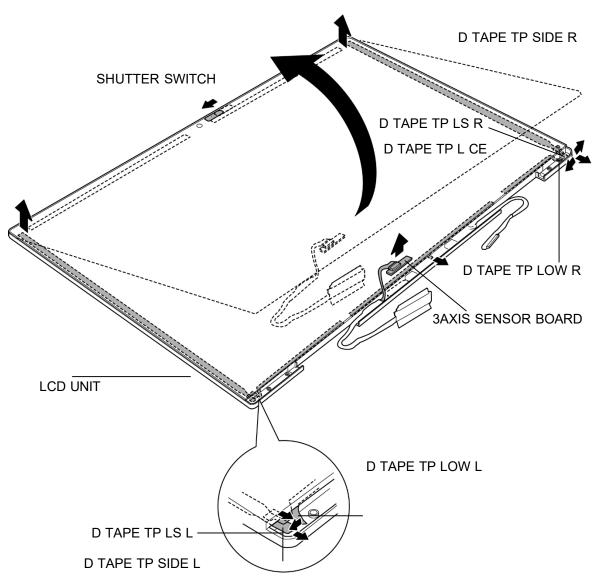


Figure 4-28 Removing the LCD (3)



- 11. Peel off the INSU SQUARE.
- 12. Release the **lock bar** and disconnect the **LCD HARNESS** from the connector on the LCD UNIT.
- 13. Disconnect the **TOUCH PANEL HARNESS** from the connector on the TOUCH PANEL.
- 14. Disconnect the **SENSOR HARNESS** from the connector **CN9860** on the 3AXIS SENSOR BOARD.

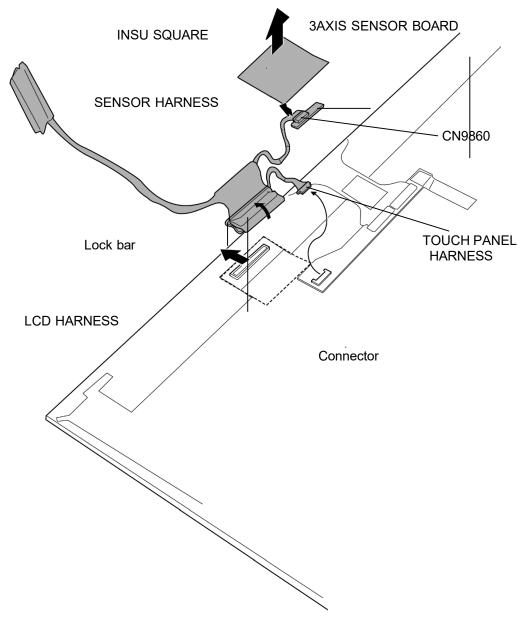


Figure 4-29 Removing the LCD (4)



- 15. Disconnect the **CAMERA HARNESS** (FPC portion) from the connector on the CAMERA MODULE.
- 16. Remove the **CAMERA COV ASSY** from the LCD COVER ASSY.
- 17. Remove the **SHUTTER SWITCH** from the CAMERA COV ASSY.
- 18. Remove the **CAMERA MODULE** from the LCD COVER ASSY.

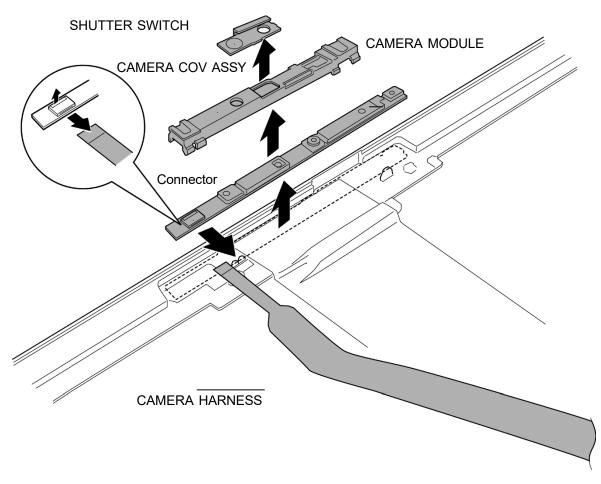


Figure 4-30 Removing the CAMERA MODULE (1)



19. Remove the **CAMERA HARNESS** (FPC portion) from the LCD COVER ASSY.

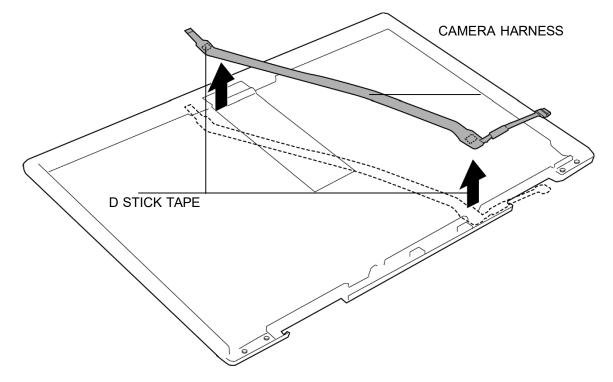


Figure 4-31 Removing the CAMERA MODULE (2)



Installing the LCD/CAMERA MODULE

To install the LCD/CAMERA MODULE, follow the steps below and refer to Figure 4-26 to 4-31.





AC Adapter, External cables provided with the AC adapter and USB cables

The AC adapter as well as all external cables provided with the notebook including the AC adapter cables and USB cables should be segregated and sent for shredding.

The following components contained within the AC adapter potentially contain hazardous substances and require special handling:

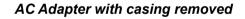
- Printed Circuit Board >10 cm²
- Capacitor >25 mm in height

Photos of the AC adapter and the components noted above are included below. The notebook has one of two types of AC adapter.

USB connection type

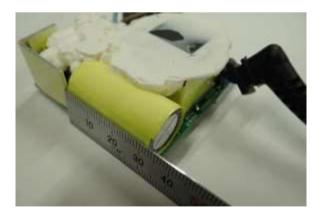


AC adapter





AC Adapter printed circuit board



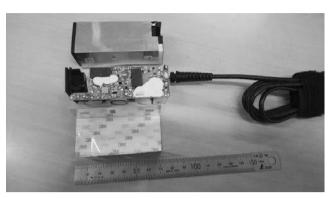
AC adapter capacitor



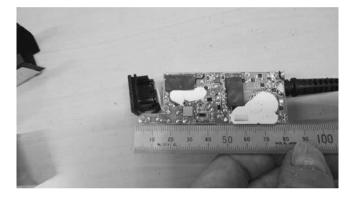
Conventional type



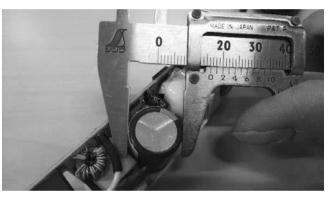
AC adapter



AC Adapter with casing removed



AC adapter printed circuit board



AC adapter capacitor