Aspire 5943G Series
Service Guide

Service guide files and updates are available on the ACER/CSD web; for more information, please refer to http://csd.acer.com.tw

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Machine Disassembly and Replacement

This chapter contains step-by-step procedures on how to disassemble the notebook computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat screwdriver
- Philips screwdriver
- Plastic flat screwdriver
- Plastic tweezers

NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatch when putting back the components.

Related Information

The product previews seen in the disassembly procedures may not represent the final product color or configuration.

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

Replacement Requirements

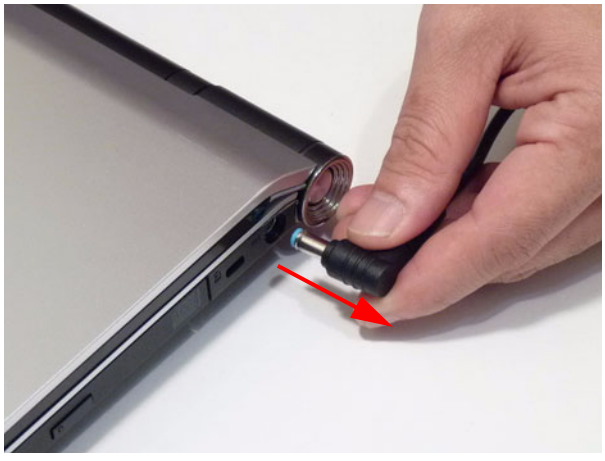
NOTE: Cabling and components require adhesive to be applied during the replacement and reassembly process.

NOTE: During manufacture a cyanoacrylate glue is used provided by Holdtite Adhesives LTD. This is not a specified requirement. The reassembler is free to select an alternative appropriate adhesive.

Pre-disassembly Instructions

Before proceeding with the disassembly procedure, make sure that you do the following:

1. Turn off the power to the system and all peripherals.
2. Unplug the AC adapter and all power and signal cables from the system.



3. Place the system on a flat, stable surface.

Disassembly Process

The disassembly process is divided into the following sections:

- External components disassembly
- Main unit disassembly
- LCD module disassembly

The flowcharts provided in the succeeding disassembly sections illustrate the entire disassembly sequence. Observe the order of the sequence to avoid damage to any of the hardware components. For example, if you want to remove the Mainboard, you must first remove the Keyboard, and LCD Module then disassemble the inside assembly frame in that order.

Main Screw List

Screw	Quantity	Acer Part Number
M2.5*3 Ni	13	86.PWL02.001
M1.98*3	8	86.PWL02.002
M 2.5*5.7+2	4	86.PWL02.003
M1.6*2.5 Ni	8	86.PWL02.004
Spring and Screw	6	86.PWL02.005
M2.5*4	9	86.PWL02.010
M2.5*9.8+2.8	2	86.PWL02.007
M2.45*8	17	86.PWL02.008
M3*3 Ni	4	86.PWL02.009

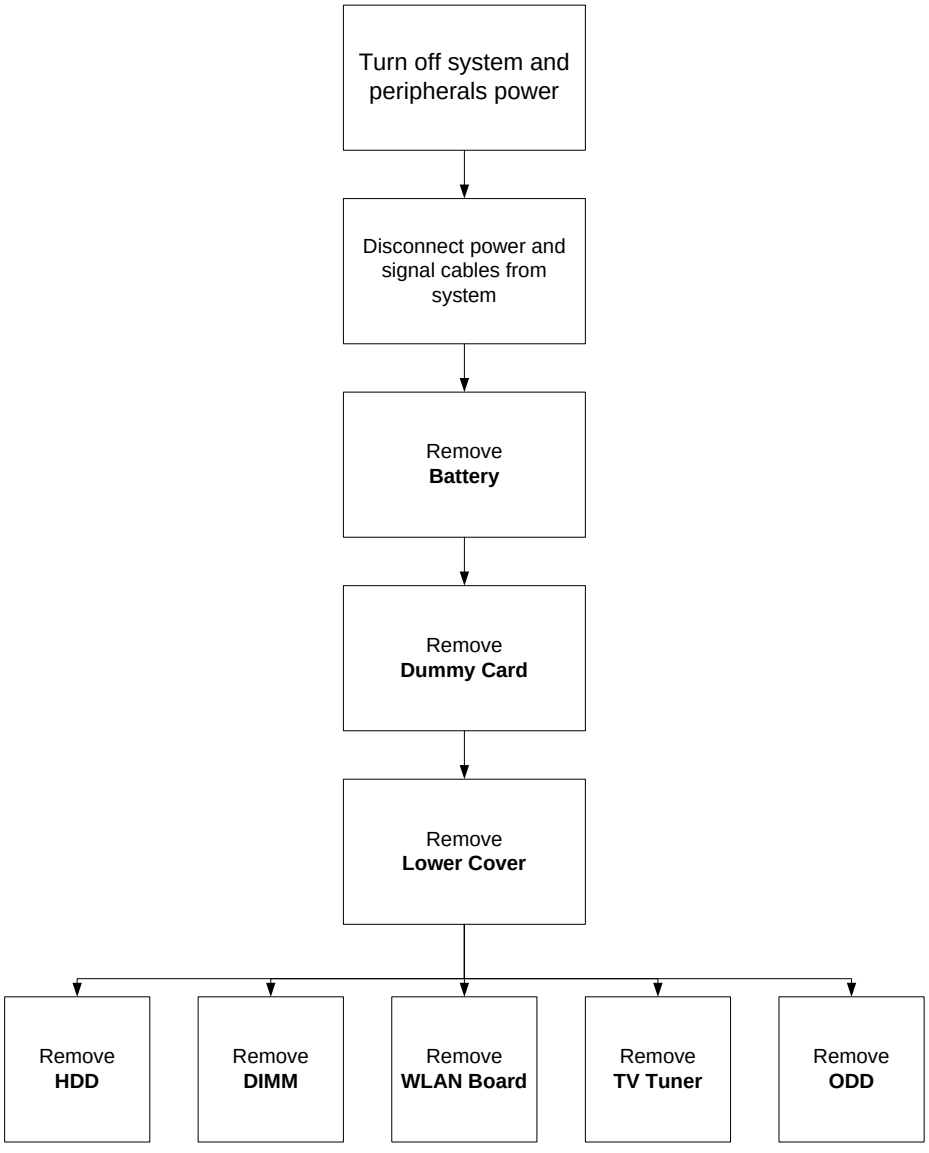
External Module Disassembly Process

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

Screw List

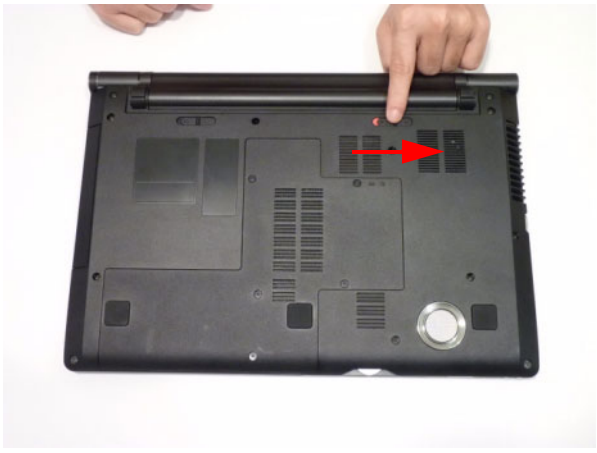
Step	Screw	Quantity	Part No.
HDD Bracket Disassembly	M3*3Ni	4	86.PWL02.009
WLAN Module Disassembly	M1.98*3	1	86.PWL02.002
ODD Module Disassembly	M2.45*8	1	86.PWL02.008
ODD Bracket Disassembly	M1.98*3	2	86.PWL02.002
TV Tuner Module Disassembly	M1.98*3	1	86.PWL02.002

External Modules Disassembly Flowchart

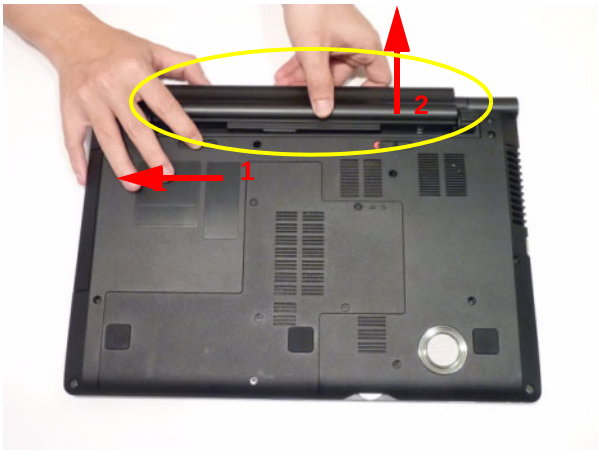


Removing the Battery Pack

1. Turn the computer over.
2. Slide the battery lock/unlock latch to the unlock position.



3. Slide and hold the battery release latch to the release position (1), then slide out the battery pack from the main unit (2).



NOTE: The battery has been highlighted with a yellow oval as shown in the above image. Please detach the battery and follow local regulations for disposal.

Removing the Dummy Card

1. Press the dummy card in to allow it to spring out.

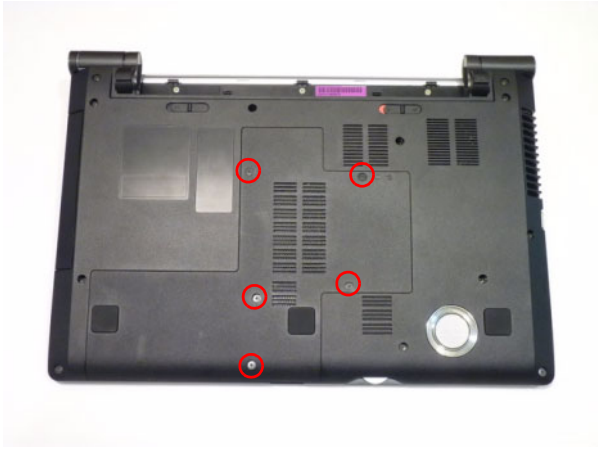


2. Pull the dummy card out.

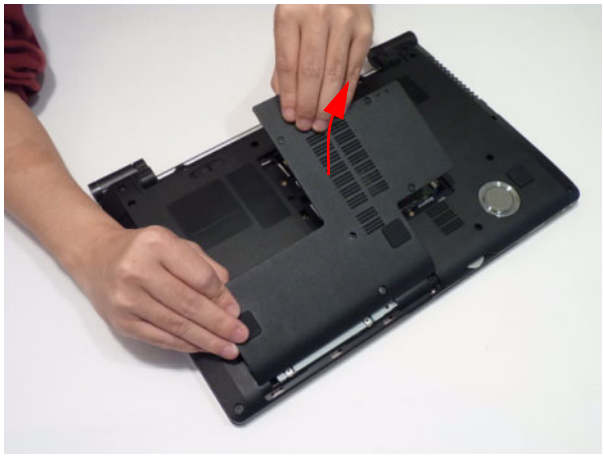


Removing the Base Door

1. See “Removing the Battery Pack” on page 49.
2. Loosen the five (5) captive screws.

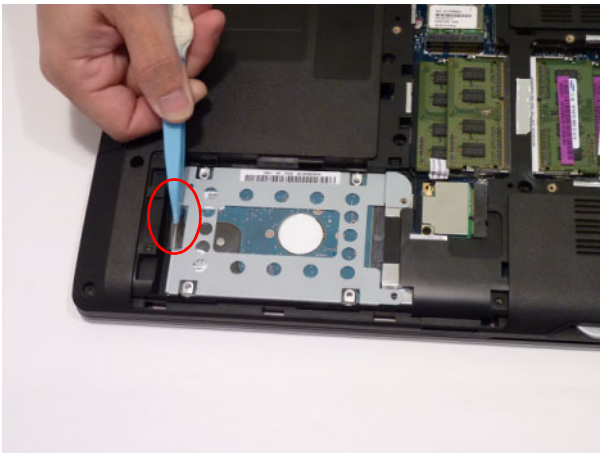


3. Lift the base door up as shown.

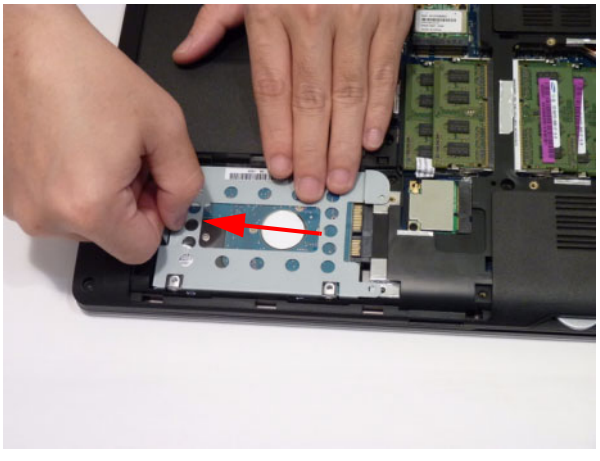


Removing the Hard Disk Drive Module

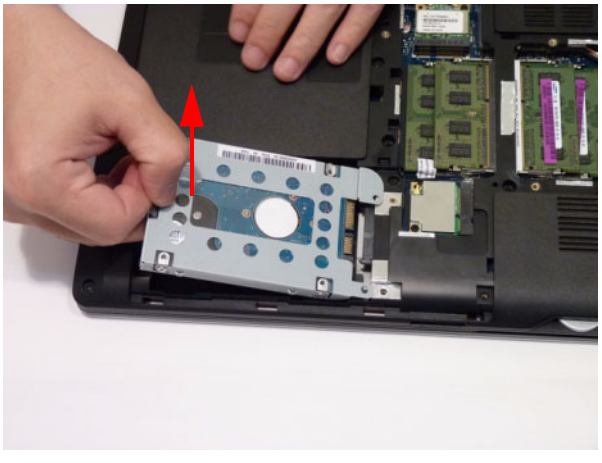
1. See “Removing the Base Door” on page 51.
2. Using tweezers, lift the pull tab out if lodged behind the HDD.



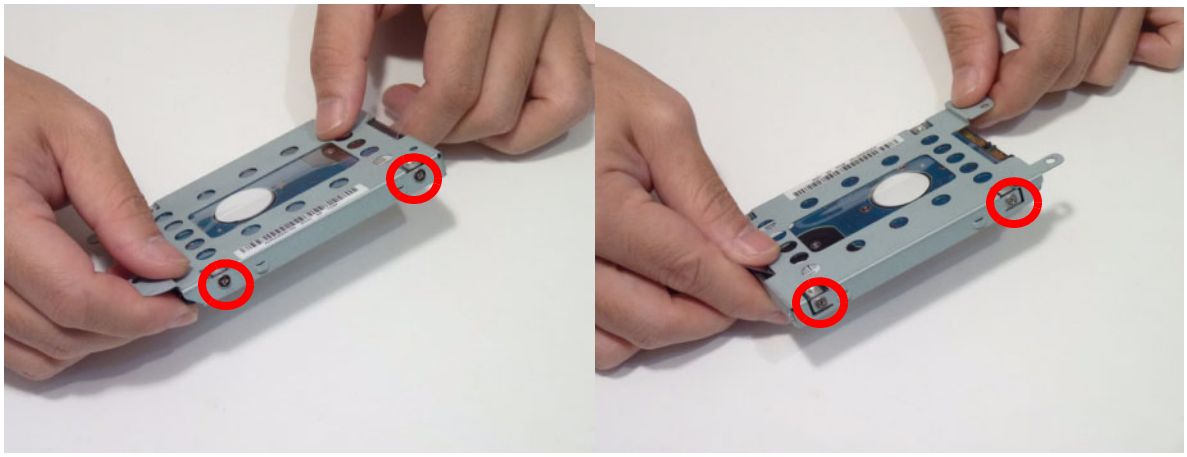
3. Grasp the tab and slide the HDD out of the connector dock as shown.



4. Lift the HDD out.

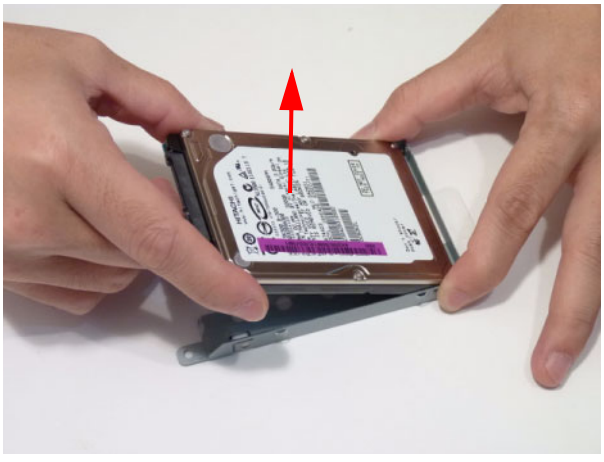


5. Remove the four (4) screws of the HDD bracket.



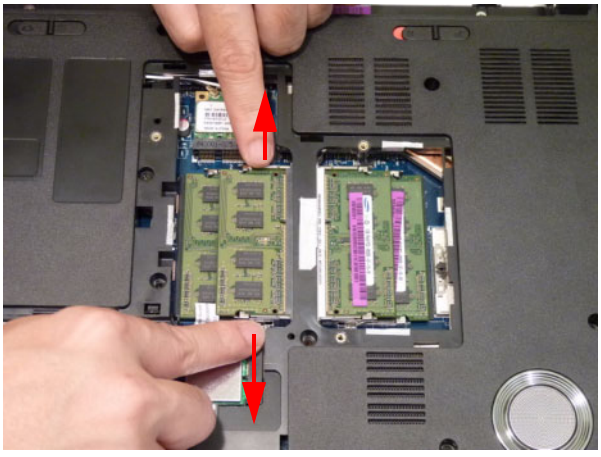
Step	Screw	Quantity	Screw Type
HDD Bracket Disassembly	M3*3Ni	4	

6. Lift the bracket away from the HDD.

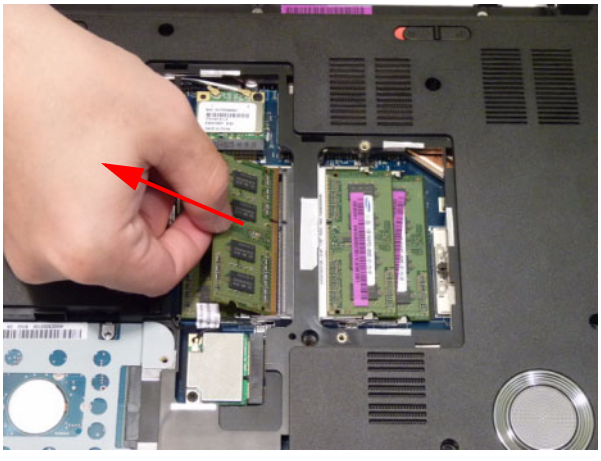


Removing the DIMM Module

1. See “Removing the Base Door” on page 51.
2. Using your fingers, push the memory module clips outwards.



3. Grasp the module and pull the DIMM module from the connector.

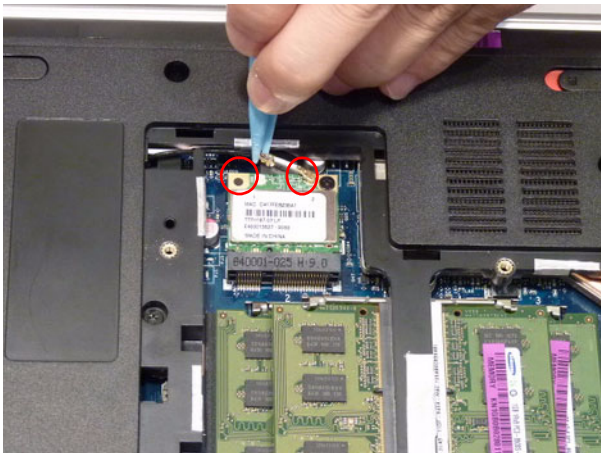


4. Repeat for additional modules if present.

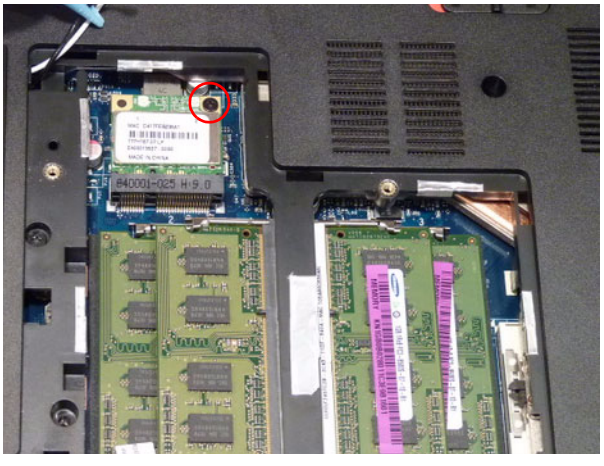
Removing the WLAN Module

1. See “Removing the Base Door” on page 51.
2. Detach the two (2) cables from the Wireless LAN module.

IMPORTANT: Note the position of the Main (black) and Auxiliary (white) connectors.

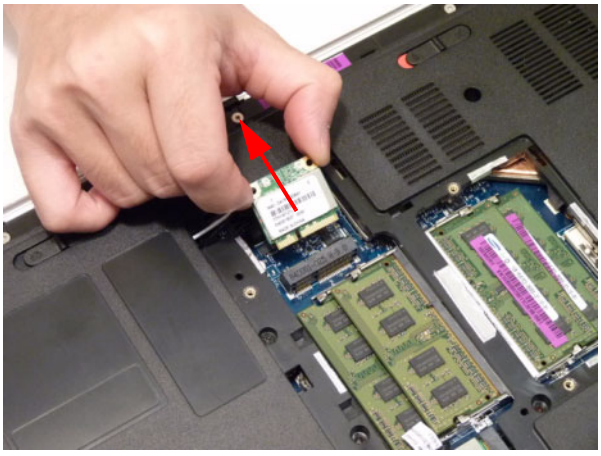


3. Remove the one (1) screw and ensure the cables are well clear of the module.



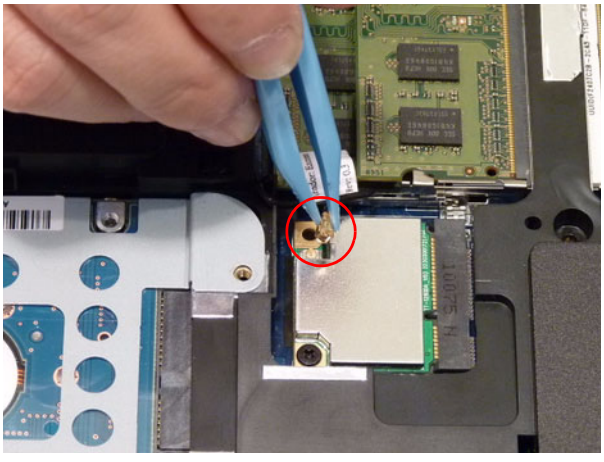
Step	Screw	Quantity	Screw Type
WLAN Module Disassembly	M1.98*3	1	

4. Pull the WLAN module out and away.

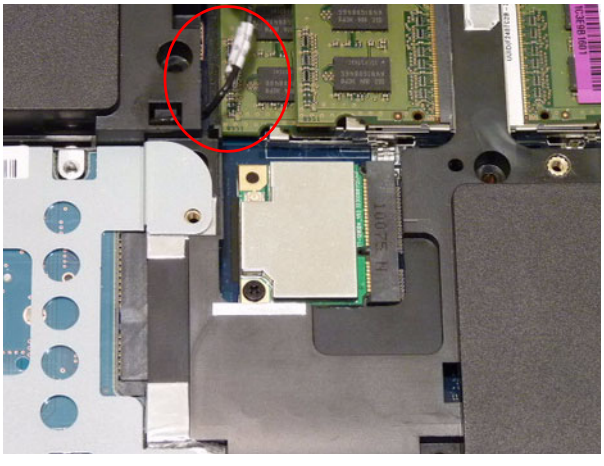


Removing the TV Tuner Module

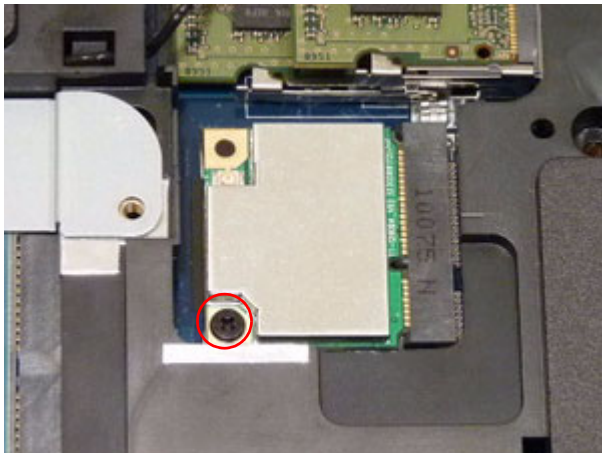
1. See “Removing the Base Door” on page 51.
2. Detach the one (1) cable from the TV Tuner module.



3. Make sure the antenna cables is clear of the board.

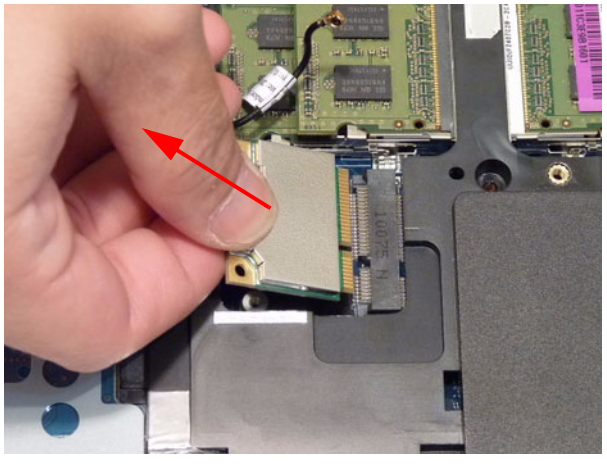


4. Remove the one (1) screw.



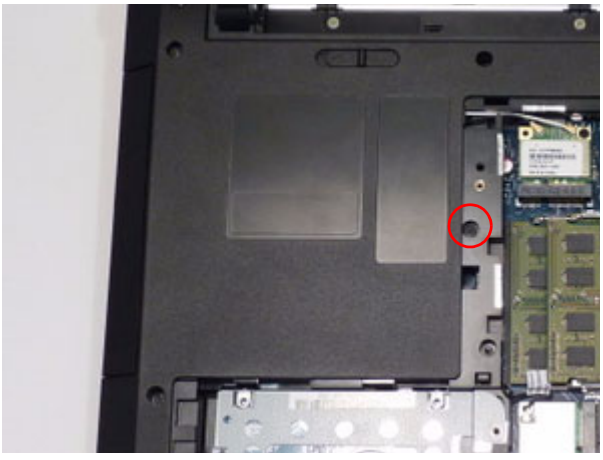
Step	Screw	Quantity	Screw Type
TV Tuner Module Disassembly	M1.98*3	1	

5. Pull the TV Tuner module out and away.



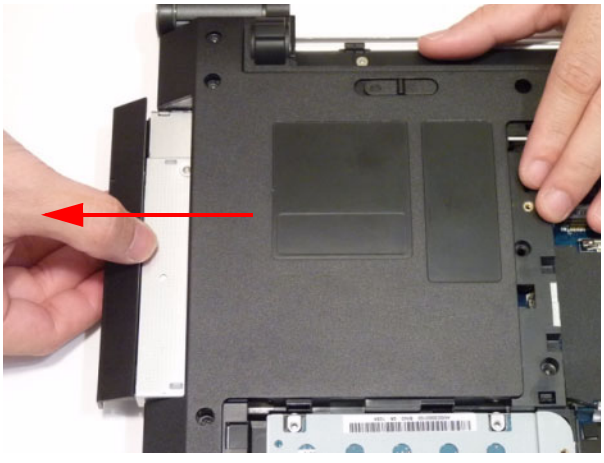
Removing the ODD Module

1. See “Removing the Base Door” on page 51.
2. Remove one (1) screw from the ODD module.

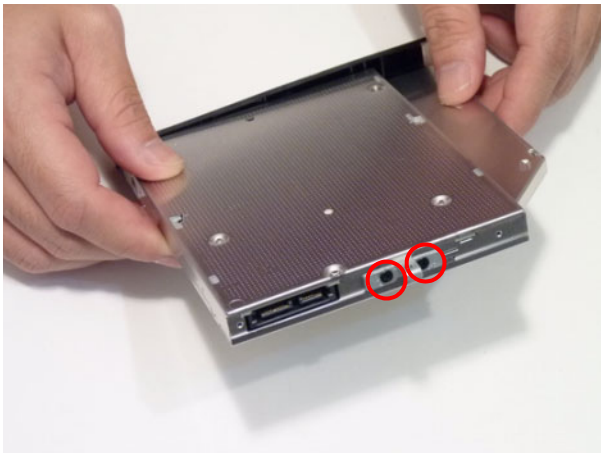


Step	Screw	Quantity	Screw Type
ODD Module Disassembly	M2.45*8	1	

3. Pull the ODD completely out of the bay.

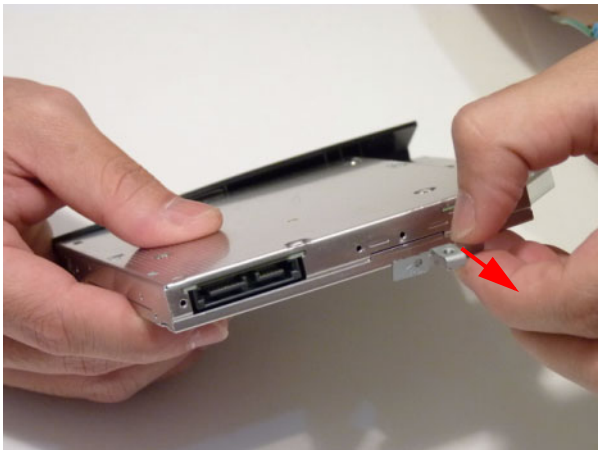


4. Remove the two (2) screws from the ODD bracket.



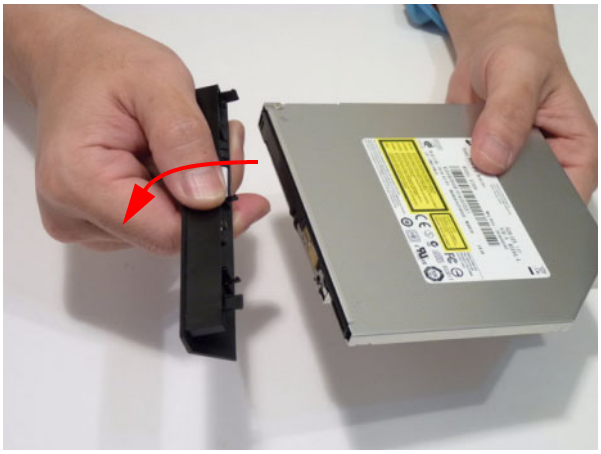
Step	Screw	Quantity	Screw Type
ODD Bracket Disassembly	M1.98*3	2	

5. Remove the ODD bracket.



6. Pry the ODD bezel off the ODD module.

NOTE: If necessary, insert the edge flat edge of the screw driver into the screw hole and push the ODD bracket to release the ODD.

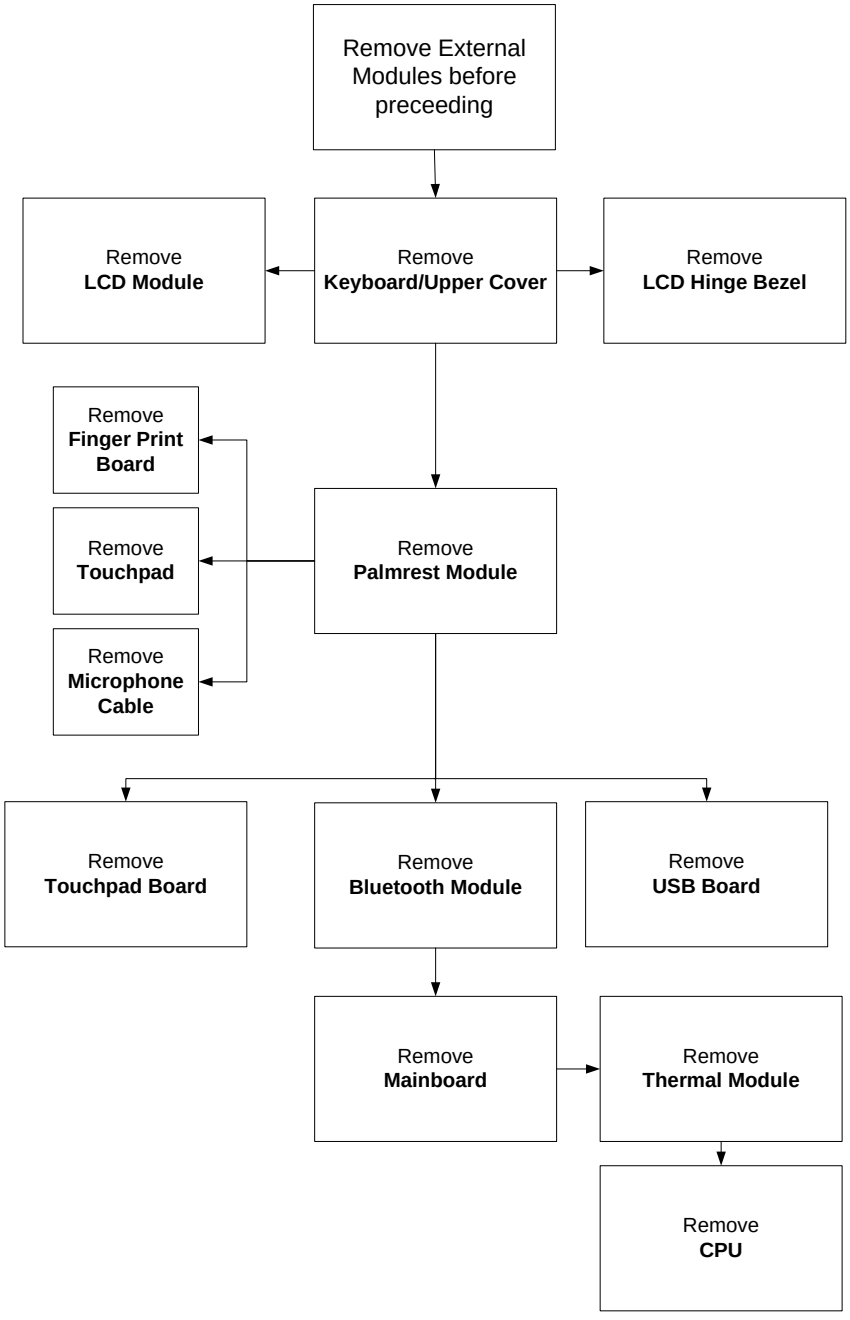


Main Unit Disassembly Process

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

Main Unit Disassembly Flowchart



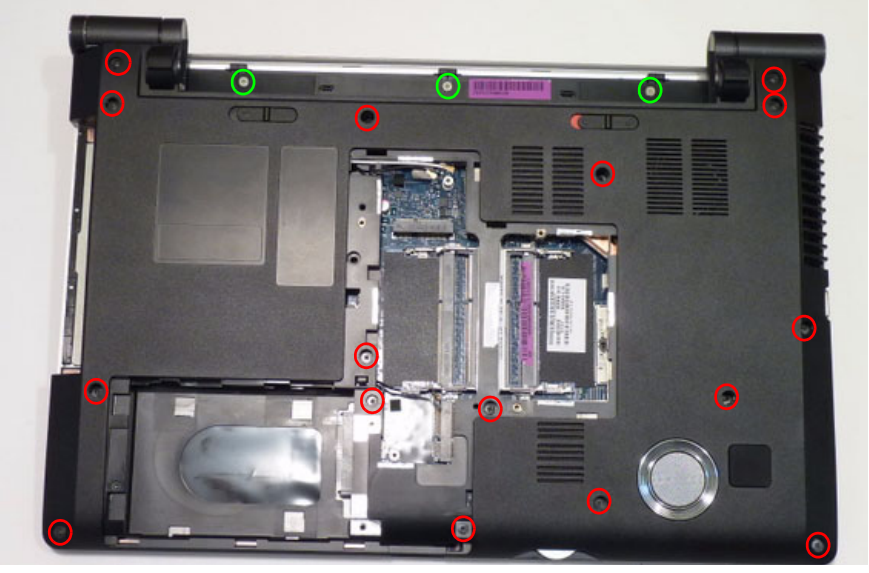
Screw List

Step	Screw	Quantity	Part No.
Upper Cover Disassembly	M2.45*8	16	86.PWL02.008
	M2.5*3 Ni	2	86.PWL02.001
Keyboard Plate Disassembly	M1.6*2.5 Ni	8	86.PWL02.004
Touchpad Board Disassembly	M2.5*3 Ni	2	86.PWL02.001
Finger Print Module Disassembly	M2.5*3 Ni	1	86.PWL02.001
USB Module Disassembly	M2.5*3 Ni	1	86.PWL02.001
Mainboard Disassembly	M2.5*3 Ni	2	86.PWL02.001
Thermal Module	Screw and Spring	6	86.PWL02.005
Front Speaker Disassembly	M2.5*5.7	4	86.PWL02.003
Subwoofer Speaker Disassembly	M2.5*9.8+2.8	2	86.PWL02.007

Removing the Keyboard/Upper Cover

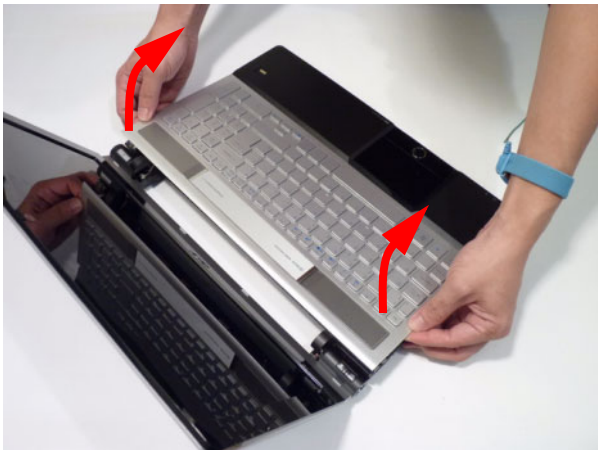
IMPORTANT: The keyboard is easily warped or damaged during the removal process. Take care not to use excessive force when removing to prevent damage.

1. See “Removing the Battery Pack” on page 49.
2. See “Removing the Base Door” on page 51.
3. See “Removing the DIMM Module” on page 54.
4. See “Removing the WLAN Module” on page 55.
5. See “Removing the TV Tuner Module” on page 57.
6. See “Removing the ODD Module” on page 59.
7. Remove the nineteen (19) screws in the lower cover.

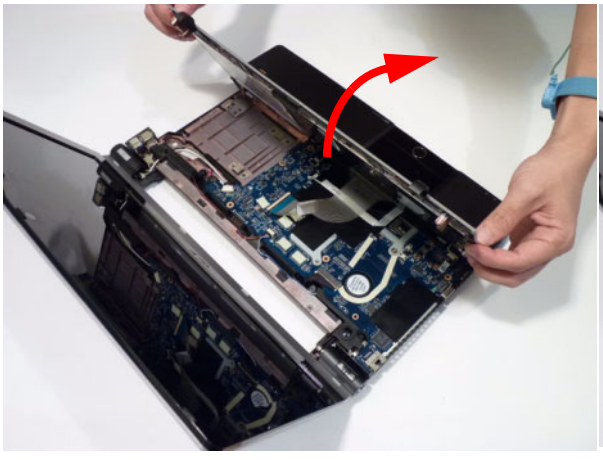


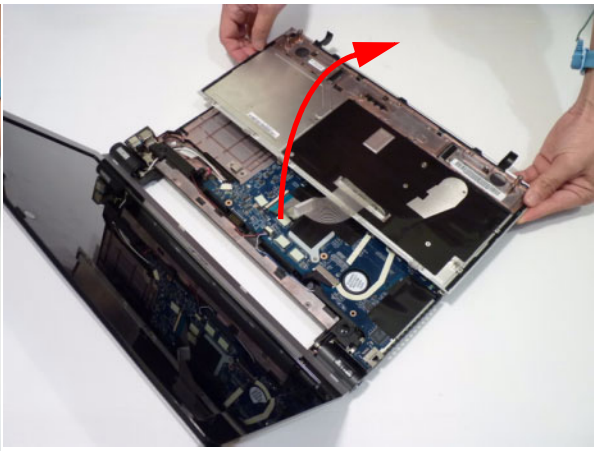
Step	Screw	Quantity	Screw Type
Upper Cover Disassembly	M2.45*8 (red callout)	16	
	M2.5*3 Ni (green callout)	3	

8. Turn the computer over. Lift up the keyboard, starting from the top edge.



9. Carefully flip the keyboard over.

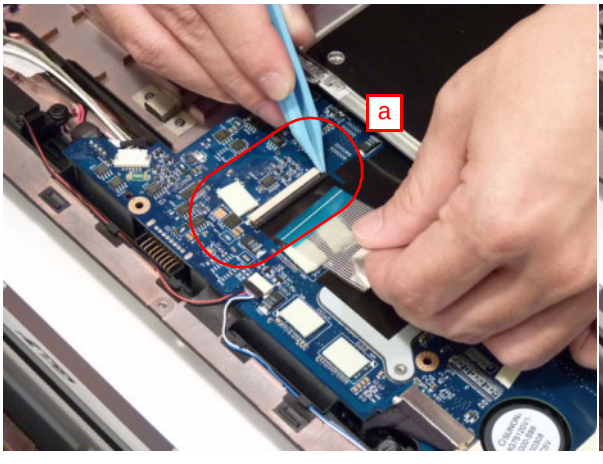


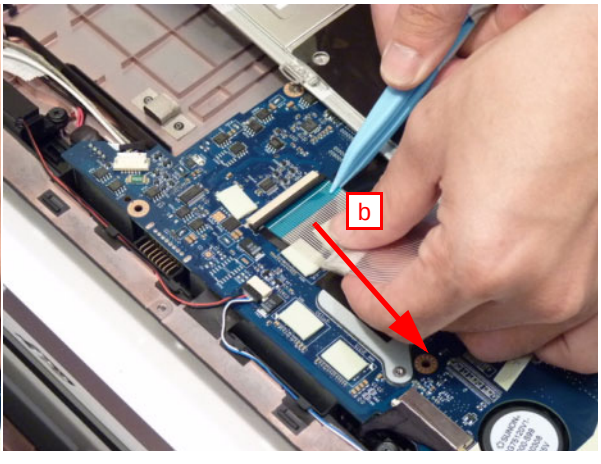


10. Detach the keyboard FFC.

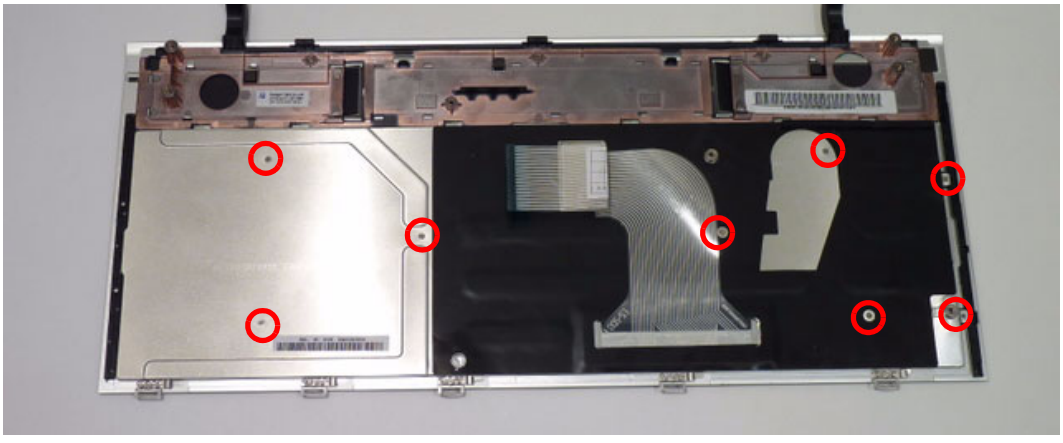
    a. Unlock the FFC

    b. Disconnect the cable.



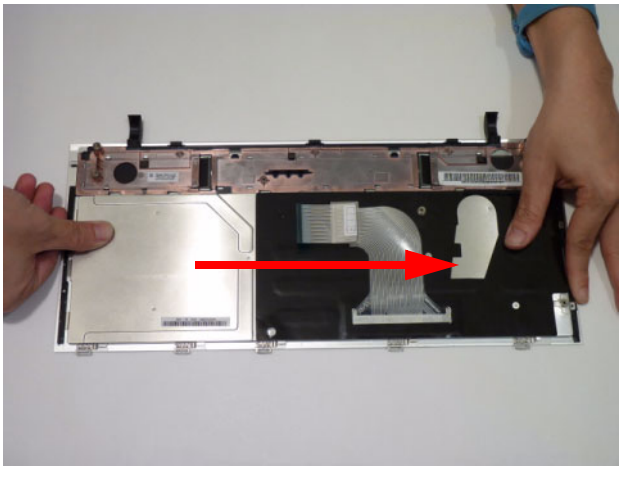


11. Remove eight (8) screws from the keyboard plate.

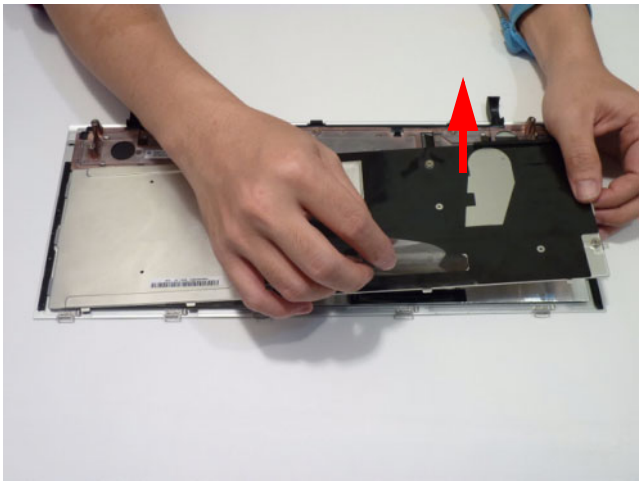


Step	Screw	Quantity	Screw Type
Keyboard Plate Disassembly	M1.6*2.5	8	

12. Slide the plate from left to right

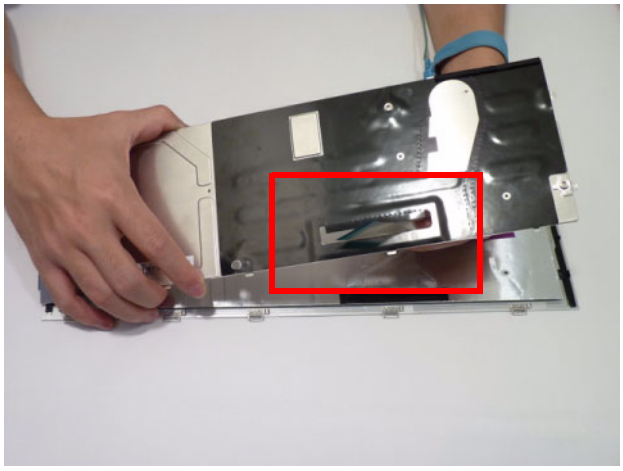


13. Hold the keyboard cable while you lift up on the keyboard plate.

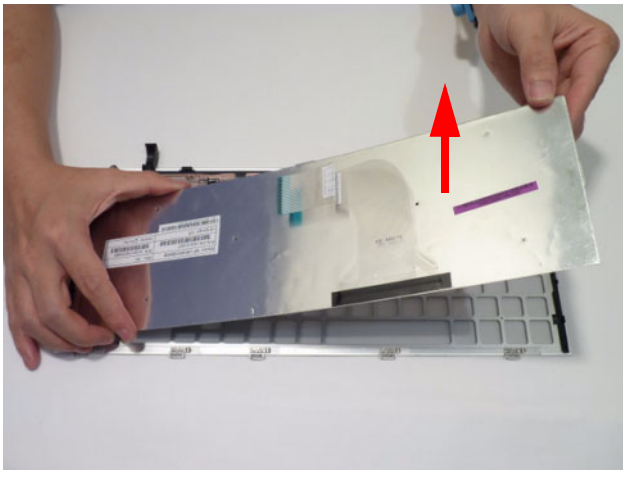


14. Grab the cable from behind the plate and lift the plate away from the keyboard.

NOTE: Make sure you do not snag the cable when you remove the plate.

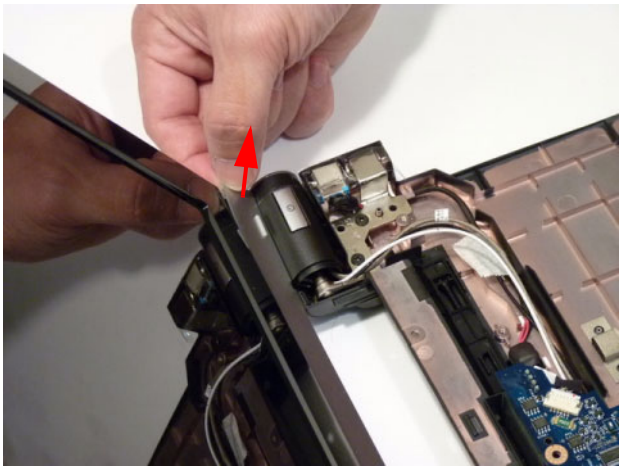


15. Lift the keyboard from the faceplate.

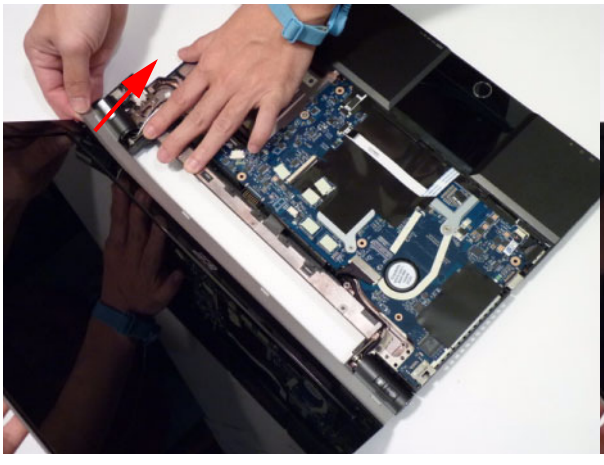


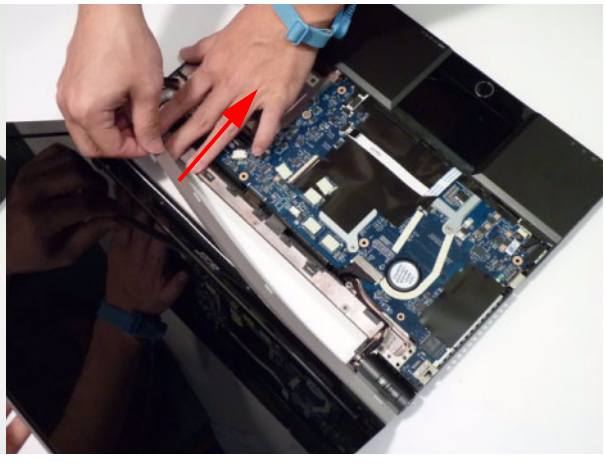
Removing the LCD Hinge Bezel

1. Lift the right corner of the LCD Hinge Bezel until the latch is unlocked.

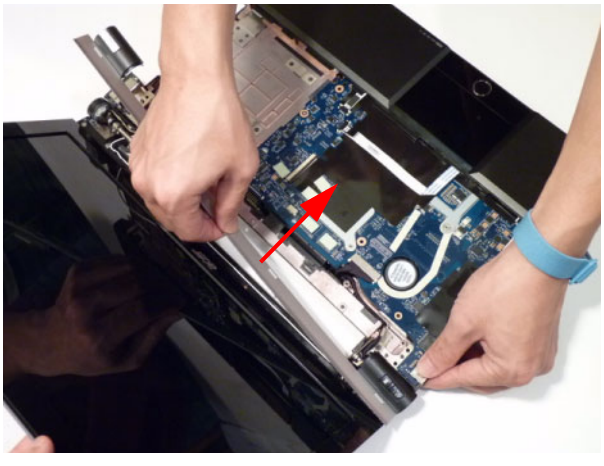


2. Separate the hinge bezel from LCD module. Work from side to side until all latches are unlocked.



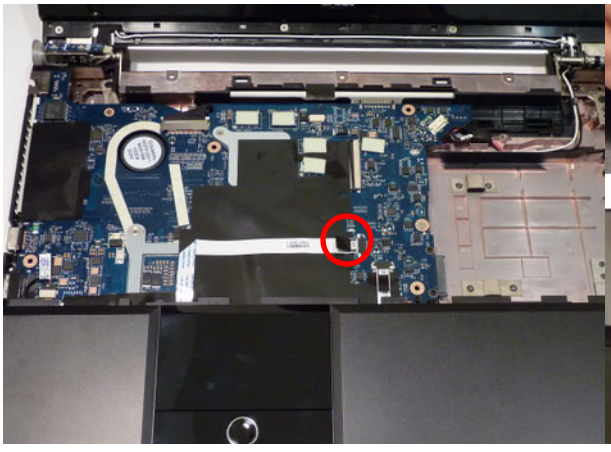
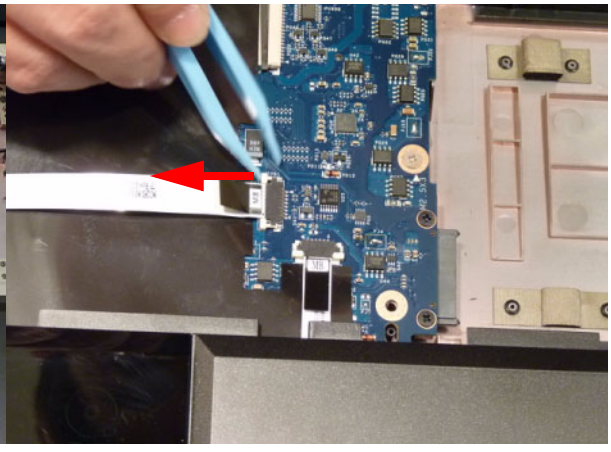


3. Lift the hinge bezel clear of the LCD module.

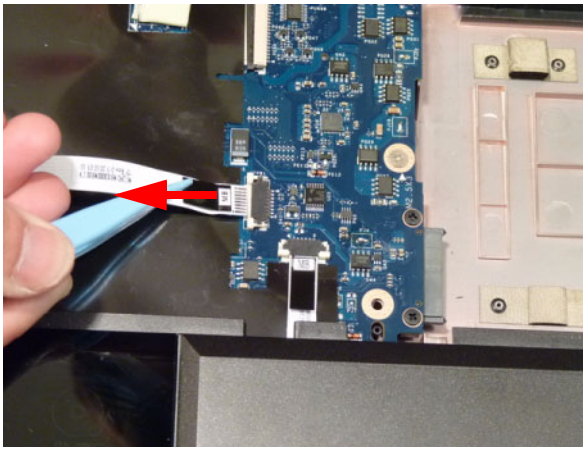


Removing the Mainboard to Touchpad Cables

1. See “Removing the Keyboard/Upper Cover” on page 64.
2. Release the locking latch for the touchpad cable.

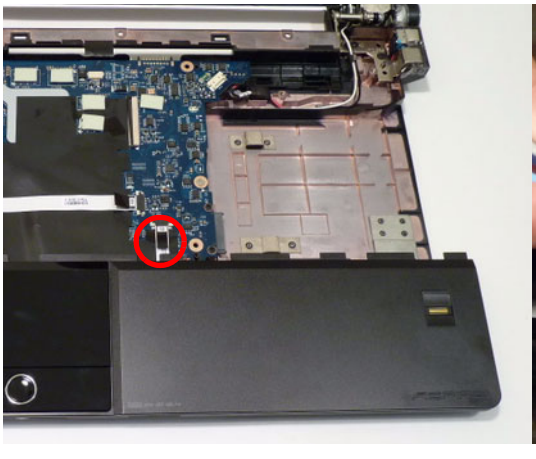
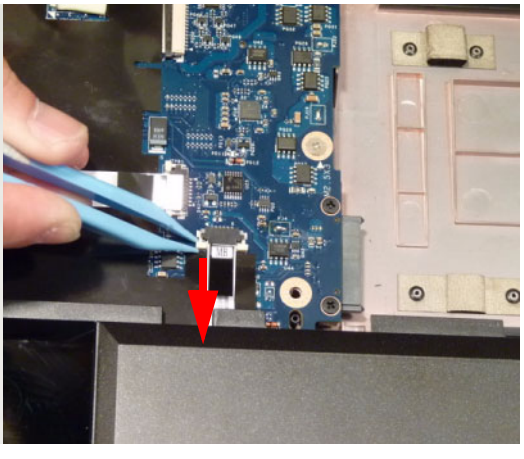



3. Remove the FFC cable as shown.

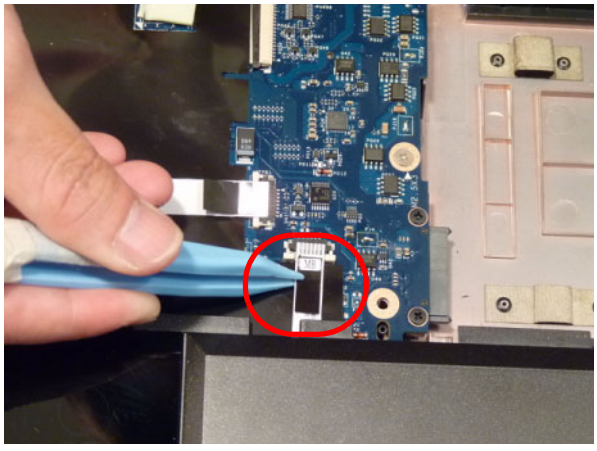


IMPORTANT: Take care not to tear the FFC during removal.

4. Release the locking latch for the fingerprint cable

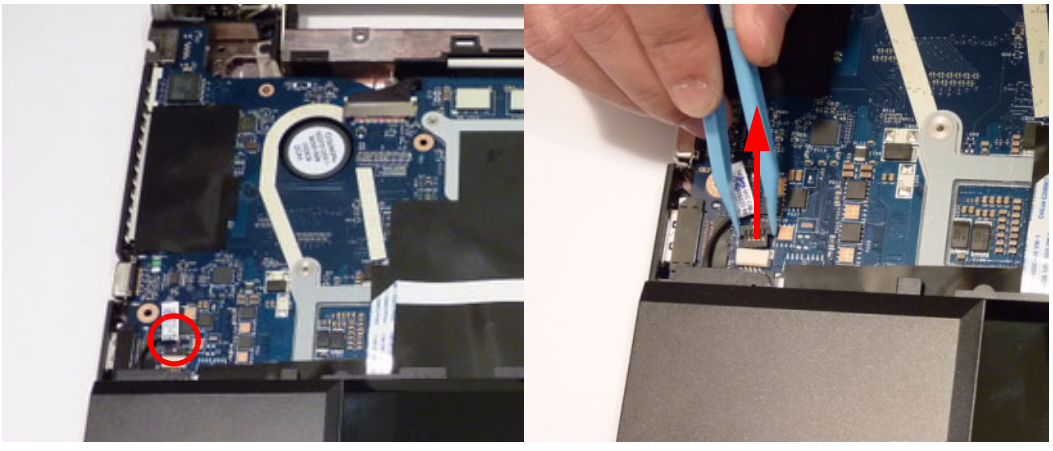



5. Remove the FFC cable as shown.



IMPORTANT: Take care not to tear the FFC during removal.

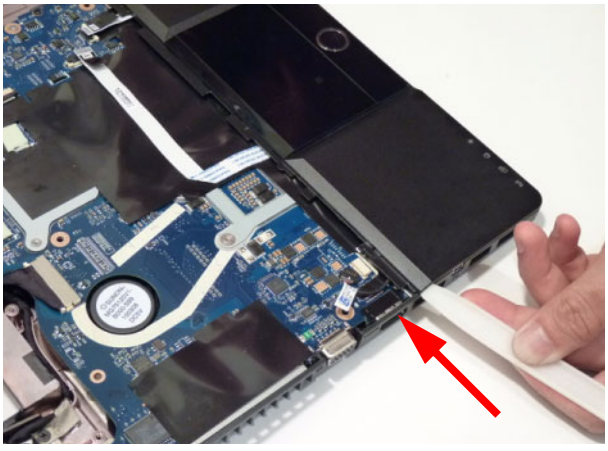
6. Remove the microphone cable as shown.



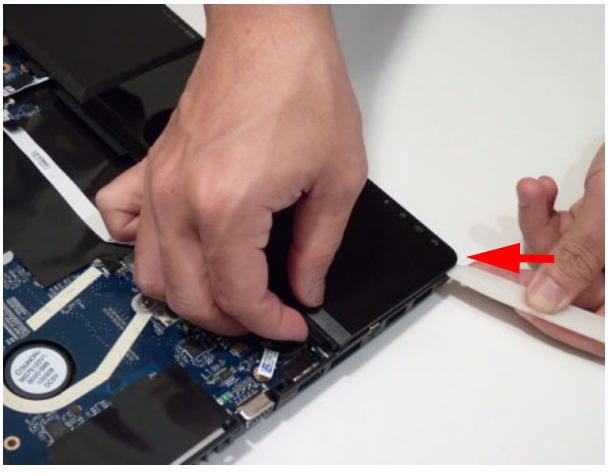
Removing the Palmrest Module

IMPORTANT: It is not possible to remove the TouchPad individually. If the TouchPad malfunctions, follow the disassembly steps to remove any additional components on the Upper Cover and replace the entire Upper Cover.

1. See “Removing the Keyboard/Upper Cover” on page 64.
2. Use a flat plastic tool to unlock the corner of the palmrest module.



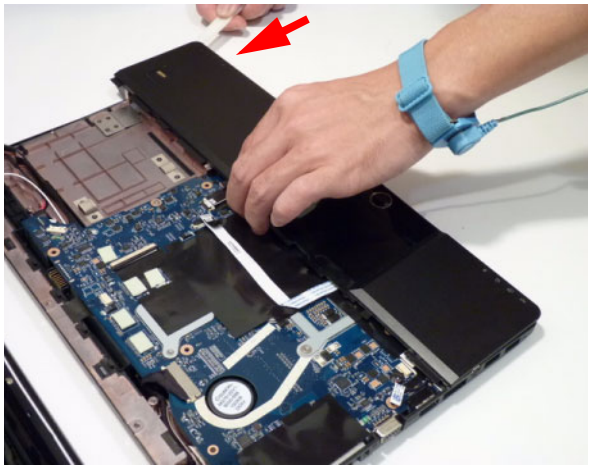
3. Follow the tool around the edges to unlock the latches under the palmrest module.



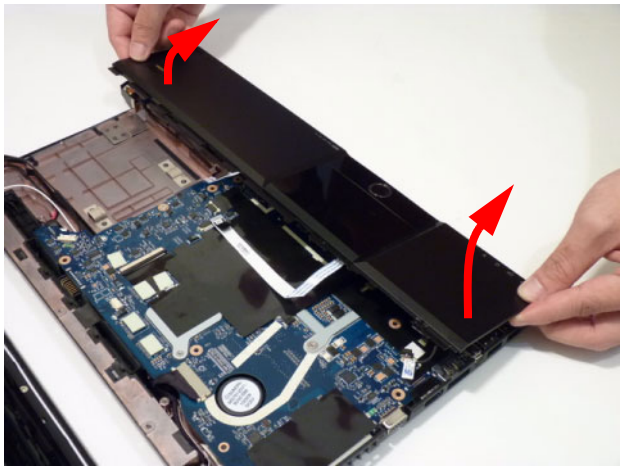
4. Continue moving the tool around the edge of the palmrest module



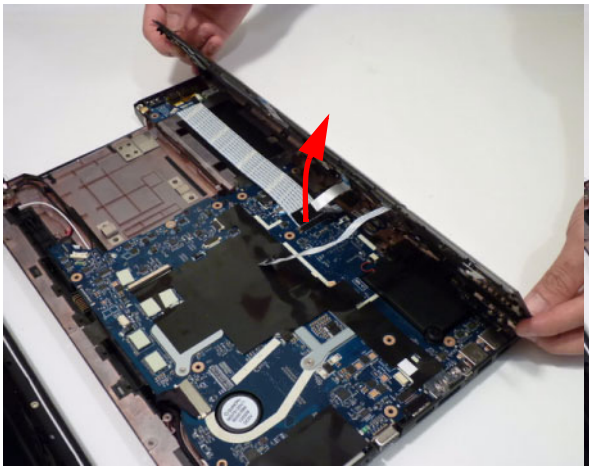
5. Follow the tool until it reaches the other end of the palmrest module.



6. When all the latches have been unlocked, gently lift the palmrest module.

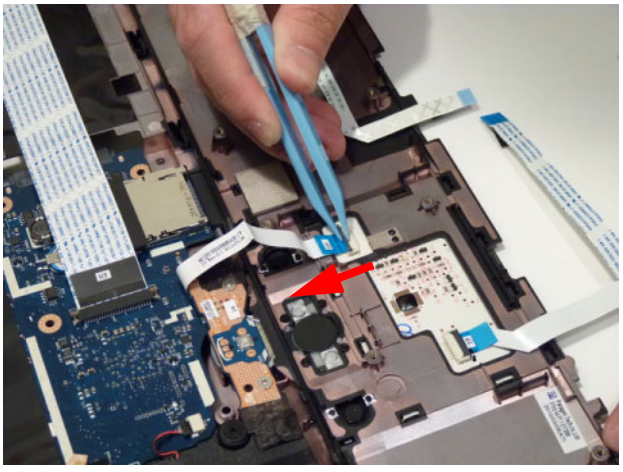


7. Lift the palmrest module at an angle as shown.

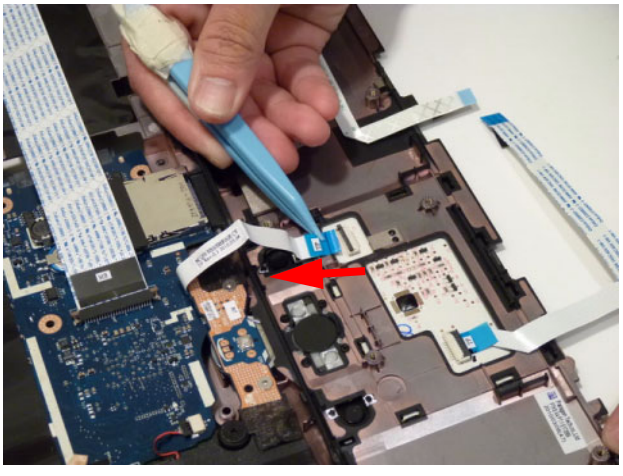




8. Release the locking latch for the touchpad button cable.

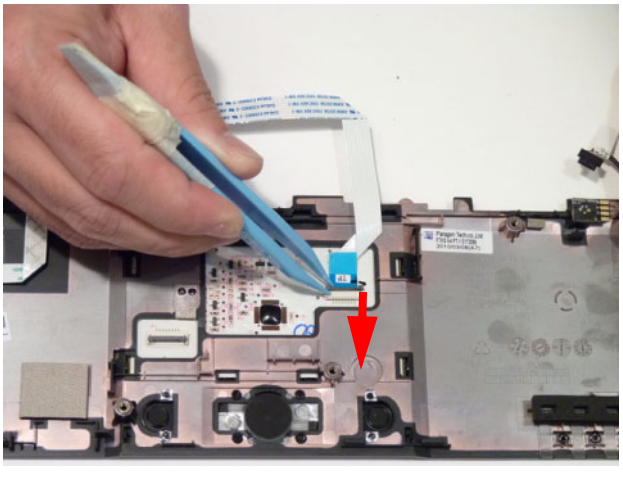


9. Remove the FFC cable as shown.

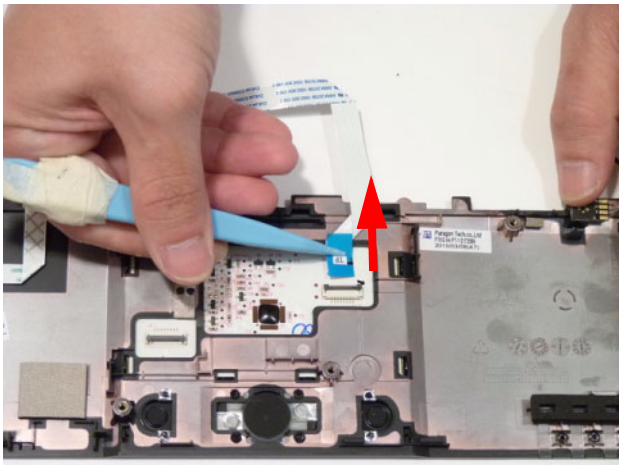


IMPORTANT: Take care not to tear the FFC during removal.

10. Release the locking latch for the touchpad cable.



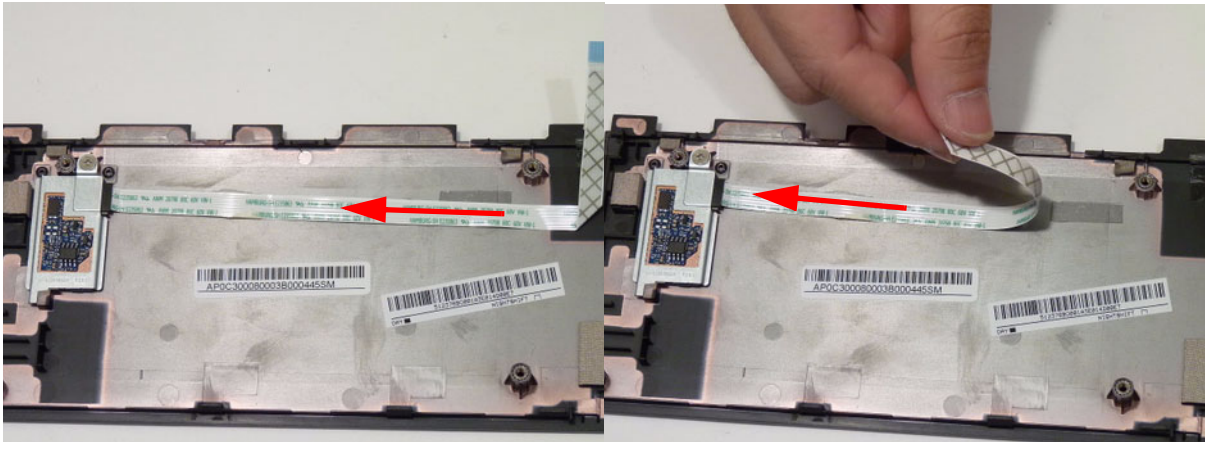
11. Remove the FFC cable as shown.



IMPORTANT: Take care not to tear the FFC during removal.

Removing the Finger Print Board

1. See “Removing the Palmrest Module” on page 71.
2. Turn the palmrest module over and release the finger print cable from the adhesive as shown.



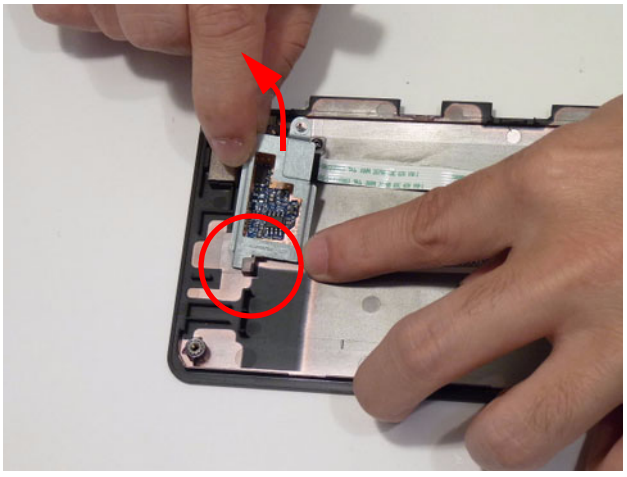
IMPORTANT: Take care not to tear the FFC during removal.

3. Remove the one (1) screw.

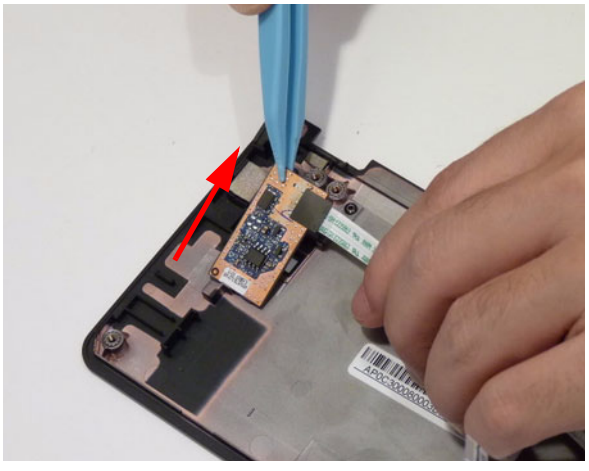


Step	Screw	Quantity	Screw Type
Finger Print Board Disassembly	M2.5*3Ni	1	

4. Lift the finger print bracket clear of the upper cover.



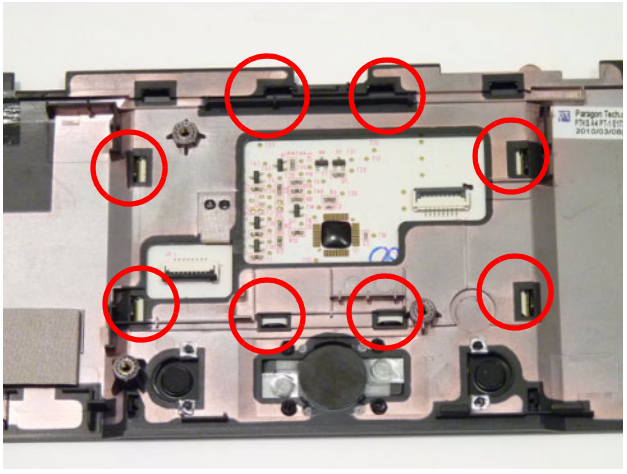
5. Lift the finger print board clear of the upper cover.



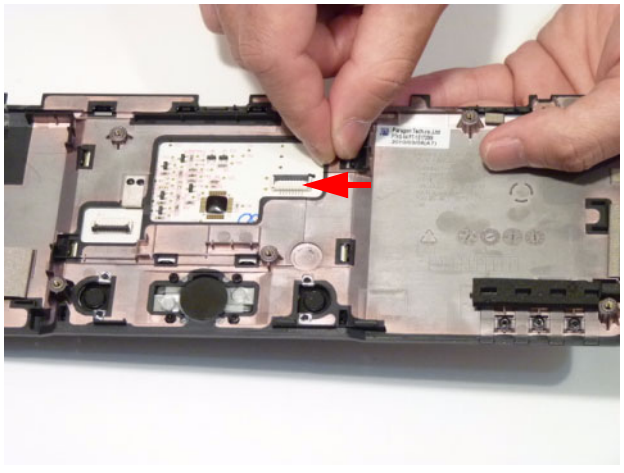
CAUTION: Do not handle the finger print board with excessive force or else damage may occur.

Removing the Touchpad

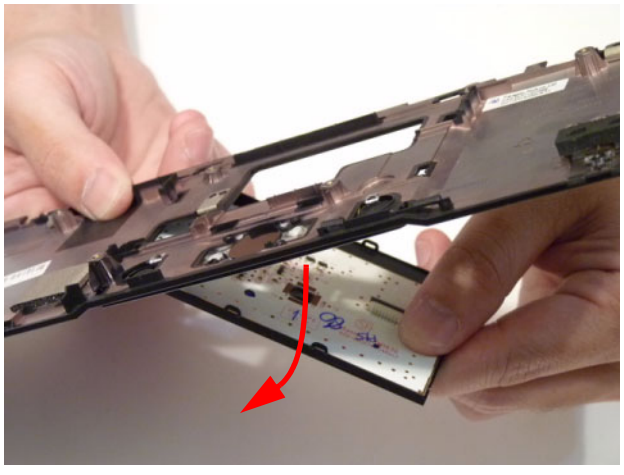
1. See “Removing the Palmrest Module” on page 71.
2. Locate eight (8) clasps holding the touchpad to the module.



3. Release the clasps from the board.

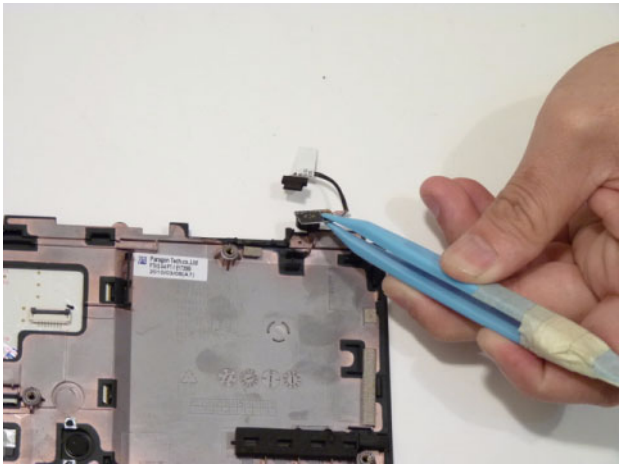


4. Remove the touchpad as shown.



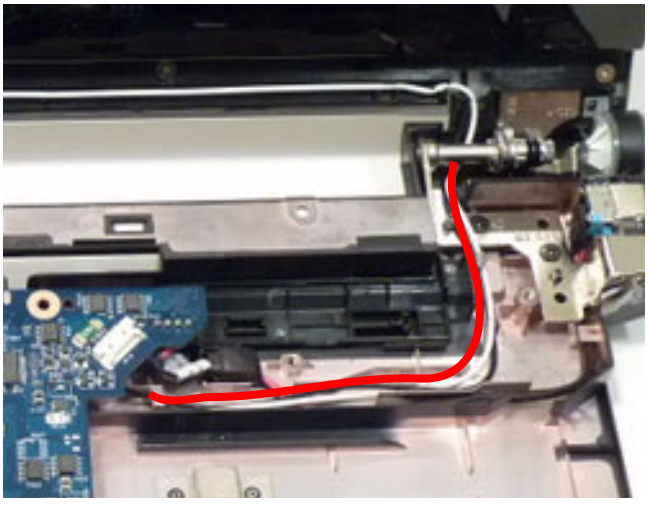
Removing the Microphone Cable

1. See “Removing the LCD Hinge Bezel” on page 68.
2. Using a plastic tweezers, lift the microphone board clear of the upper cover.



Removing the LCD Module

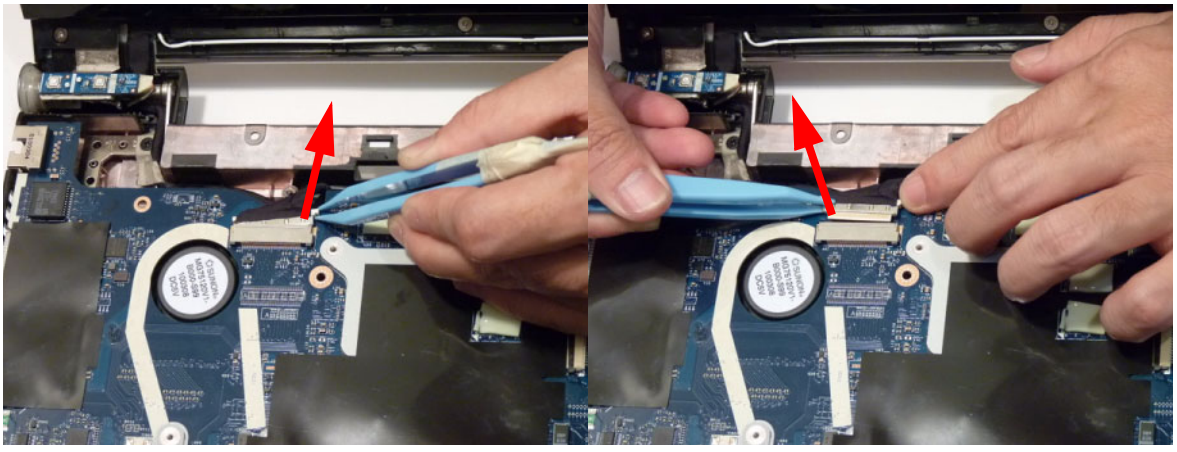
1. See “Removing the LCD Hinge Bezel” on page 68.
2. Remove the Antenna Cables from the cable channel as shown. Ensure that the cables are free from all cable clips



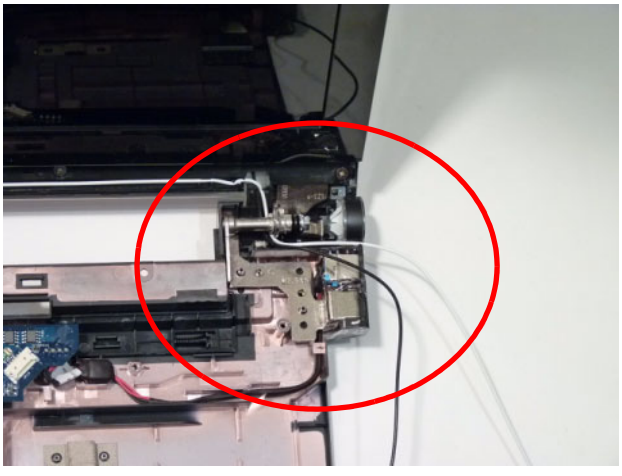
3. Stand the computer on the LCD Panel and pull the Antenna cables completely through the chassis.



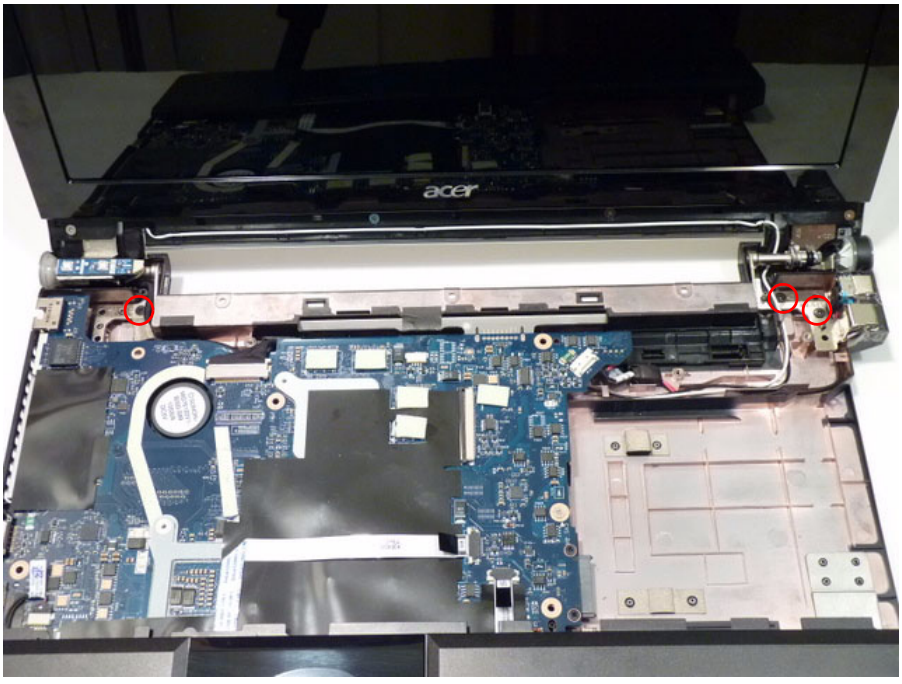
4. Disconnect the LCD cable from the Mainboard and remove the cable from the cable channel.



5. Remove the white Antenna cable from the cable channel. Ensure that the cable is completely free of the retaining clips all the way to the hinge well.

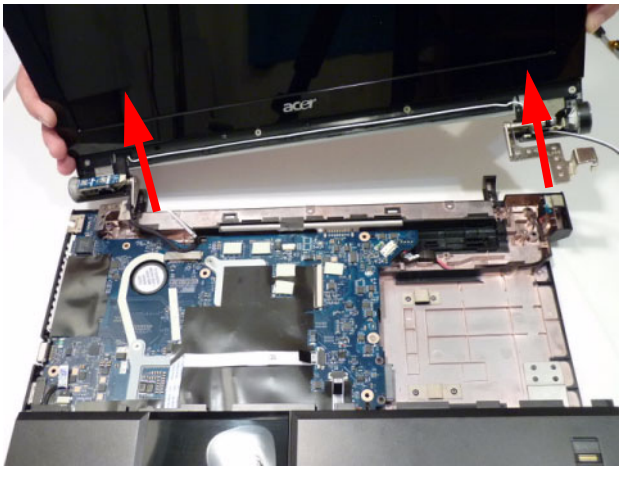


6. Remove the three securing screws from the chassis.



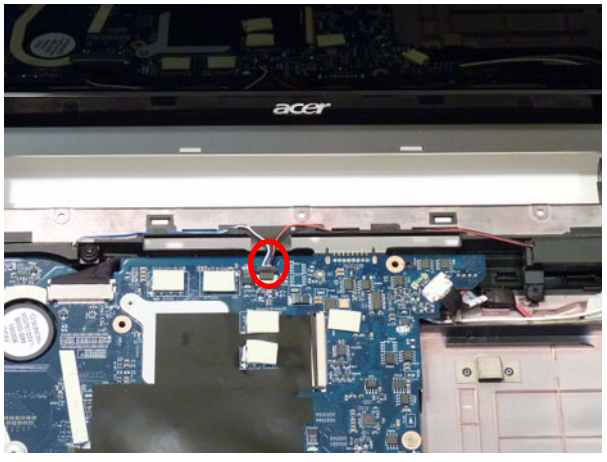
Step	Size	Quantity	Screw Type
LCD Module	M2.5*5	3	

7. Lift the LCD Module clear of the Upper Cover.

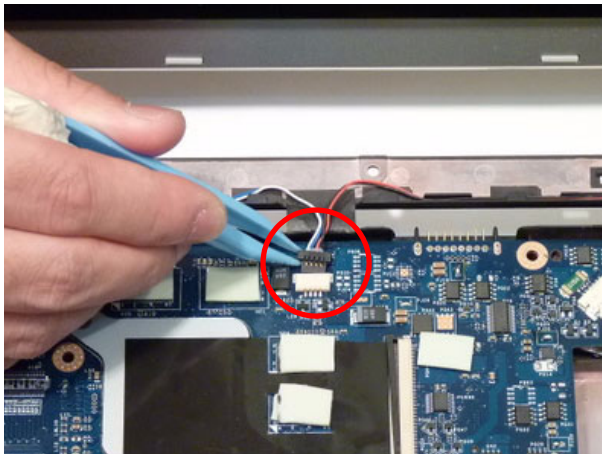


Removing the Speakers

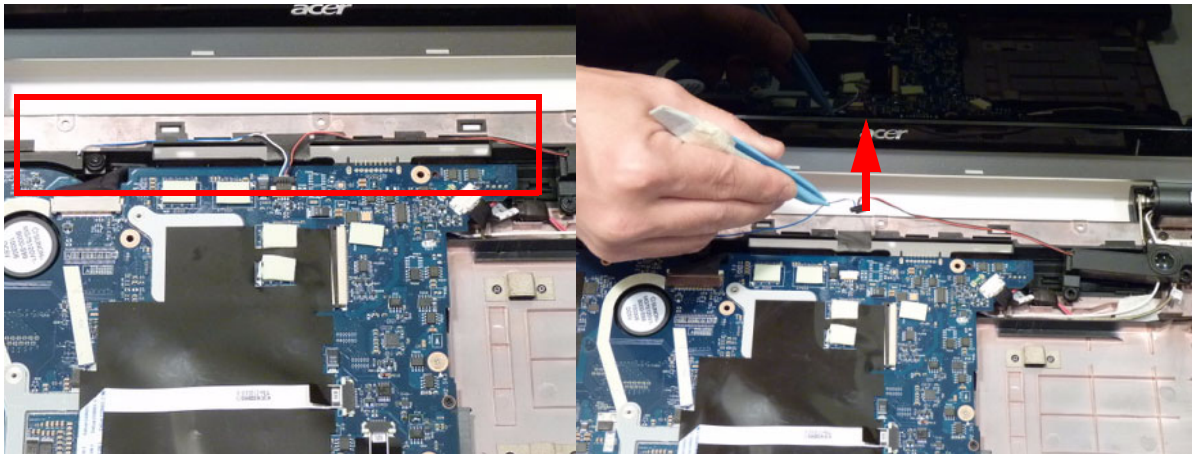
1. See “Removing the Keyboard/Upper Cover” on page 64.
2. Locate the front speaker cable on the mainboard.



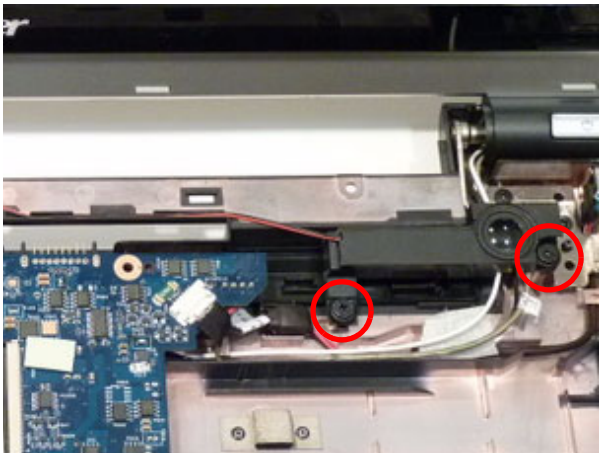
3. Remove the cable from the mainboard.



4. Release the cables from the cable clasps and remove the speaker cable from the cable channel.

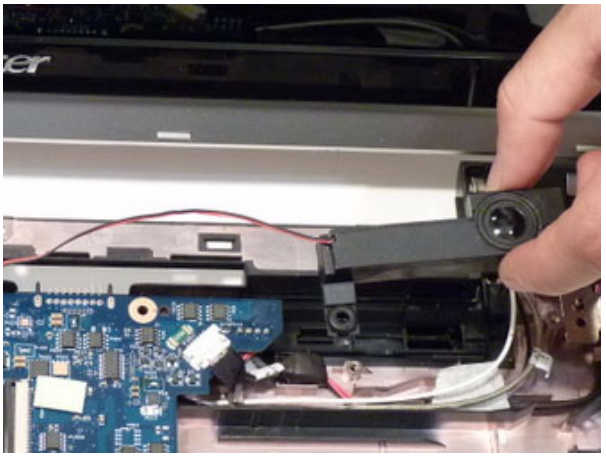


5. Remove two (2) screws from the right speaker.

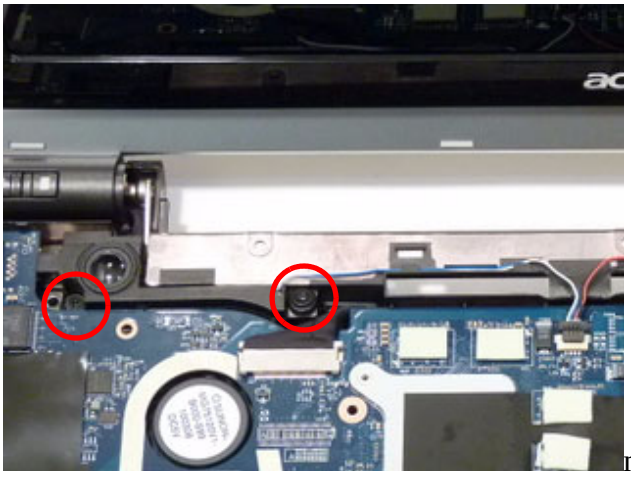


Step	Screw	Quantity	Screw Type.
Right Speaker Disassembly	M2.5*5.7	2	

6. Lift the speaker from the lower cover.



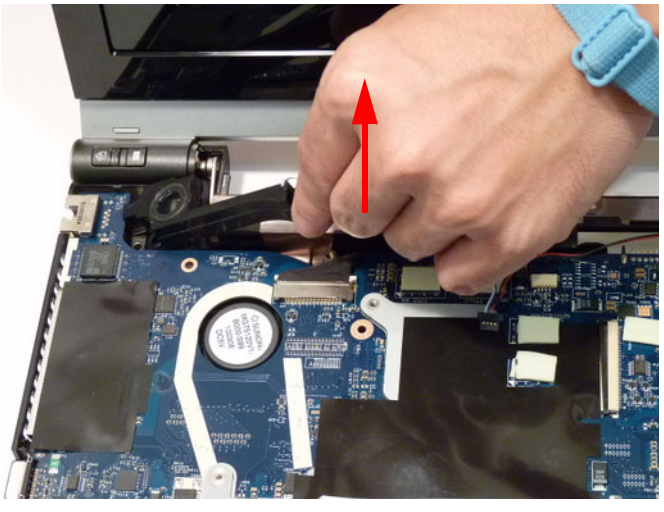
7. Remove two (2) screws from the remaining left speaker.



m

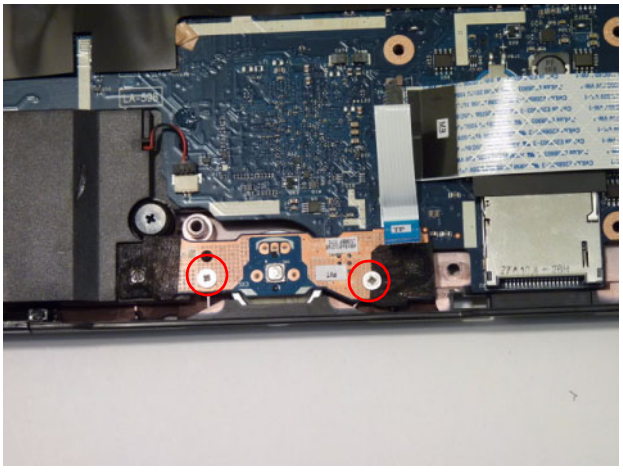
Step	Screw	Quantity	Screw Type.
Left Speaker Disassembly	M2.5*5.7	2	

8. Lift the left speaker assembly clear of the lower cover.



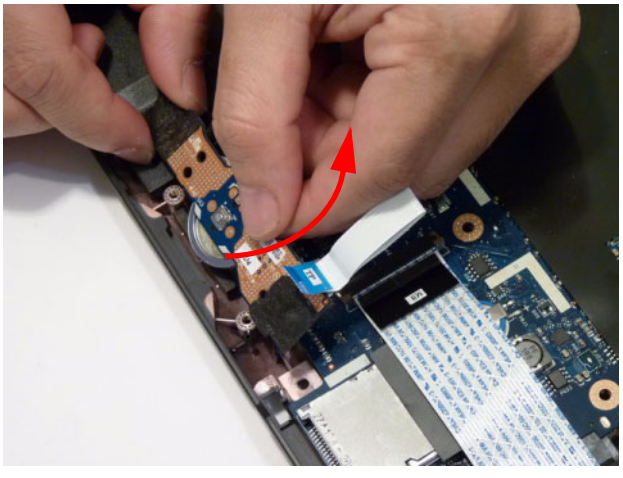
Removing the Touchpad Board

1. See “Removing the LCD Hinge Bezel” on page 68.
2. See “Removing the Palmrest Module” on page 71.
3. Remove two (2) screws from the trackpad board.



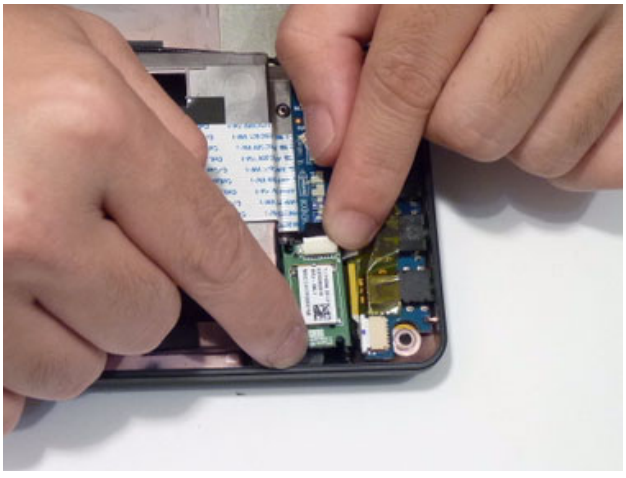
Step	Screw	Quantity	Screw Type.
Touchpad Board Disassembly	M2.5*3 Ni	2	

4. Remove board at an angle to clear the volume knob.

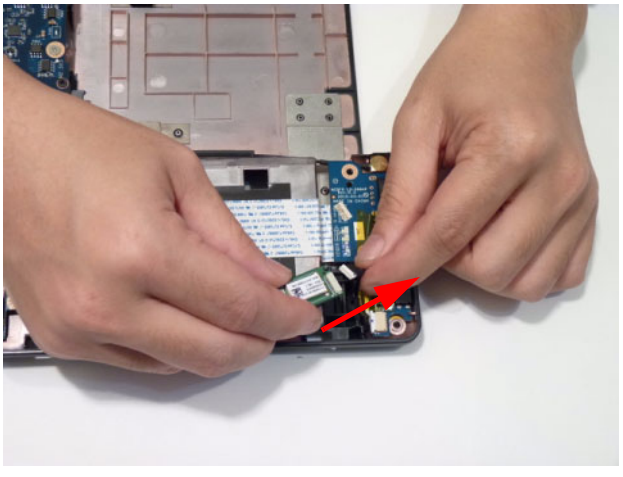


Removing the Bluetooth Module

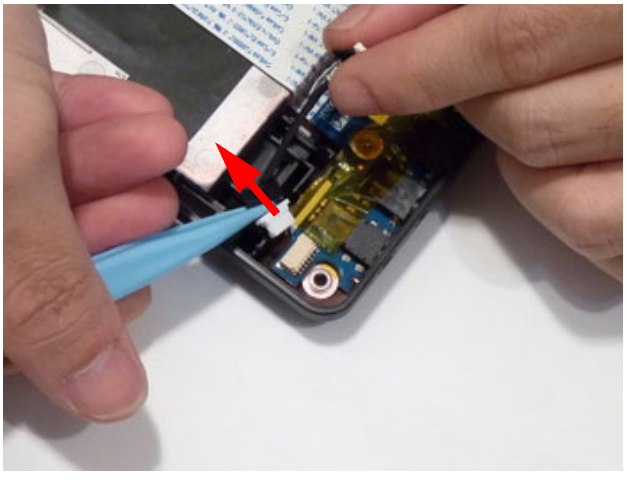
1. See “Removing the Keyboard/Upper Cover” on page 64.
2. See “Removing the Palmrest Module” on page 71.
3. Locate the Bluetooth module.



4. LIft the Bluetooth module away from the upper cover and free the Bluetooth cable from the cable clip.

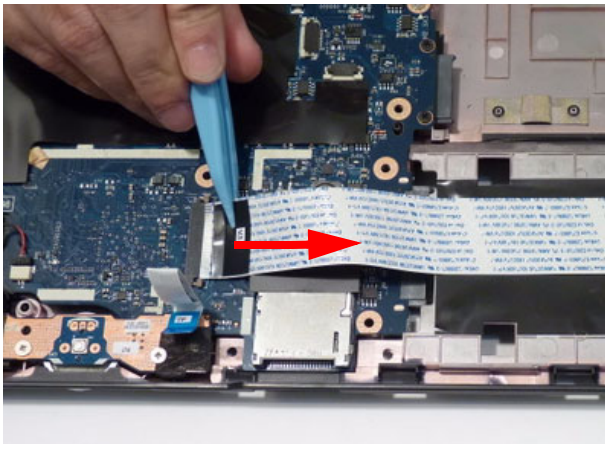


5. Disconnect the Bluetooth cable from the module.

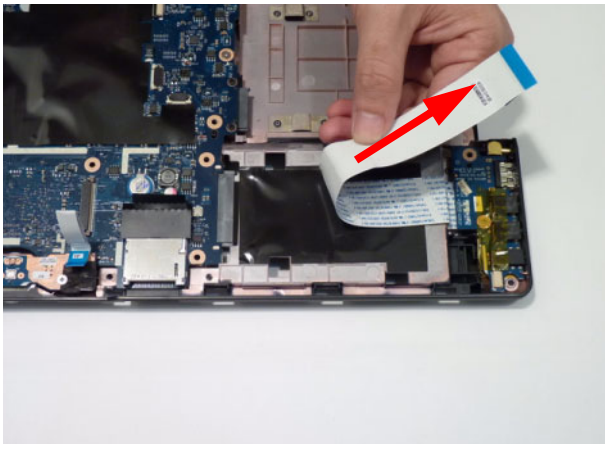


Removing the USB Board

1. See “Removing the Keyboard/Upper Cover” on page 64.
2. See “Removing the Palmrest Module” on page 71.
3. Unlock the USB board connector and disconnect the cable from the mainboard.

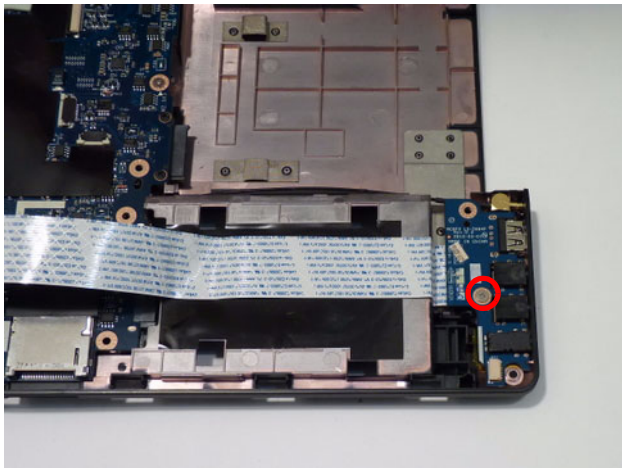


4. Peel the cable off the adhesive.



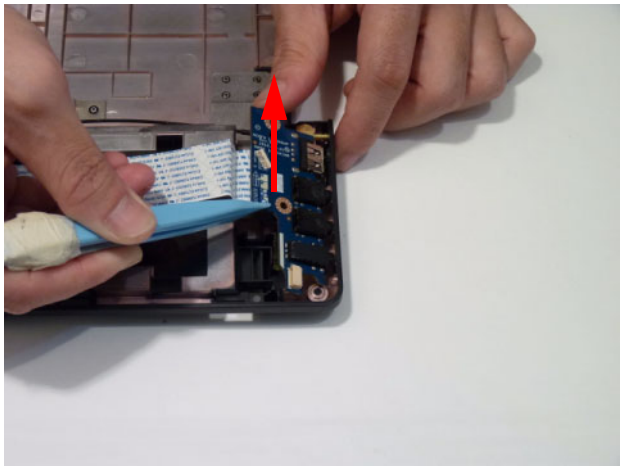
IMPORTANT: Take care not to tear the FFC during removal.

5. Remove one (1) screw from the USB board.



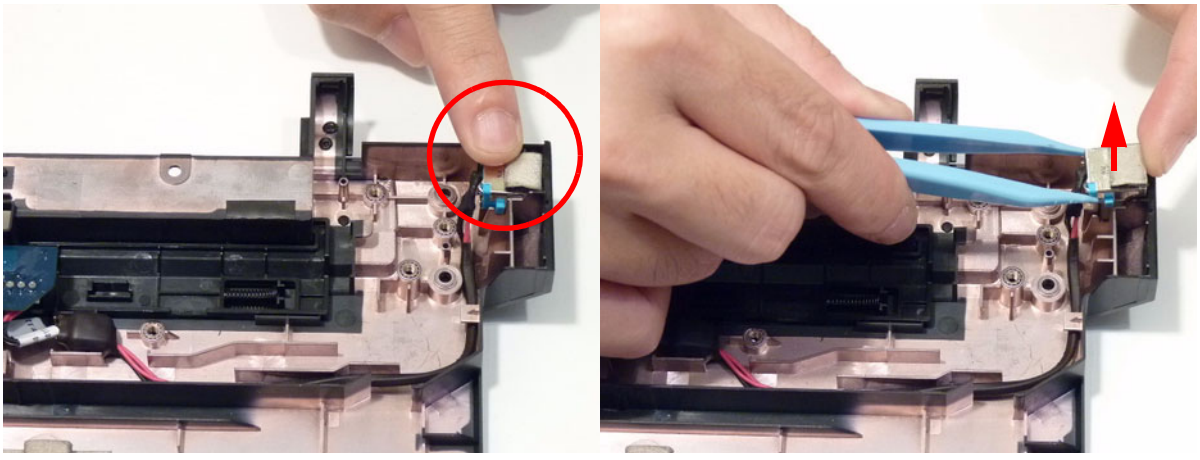
Step	Screw	Quantity	Screw Type.
USB Module Disassembly	M2.5*3	1	

6. Lift the USB board clear of the chassis.

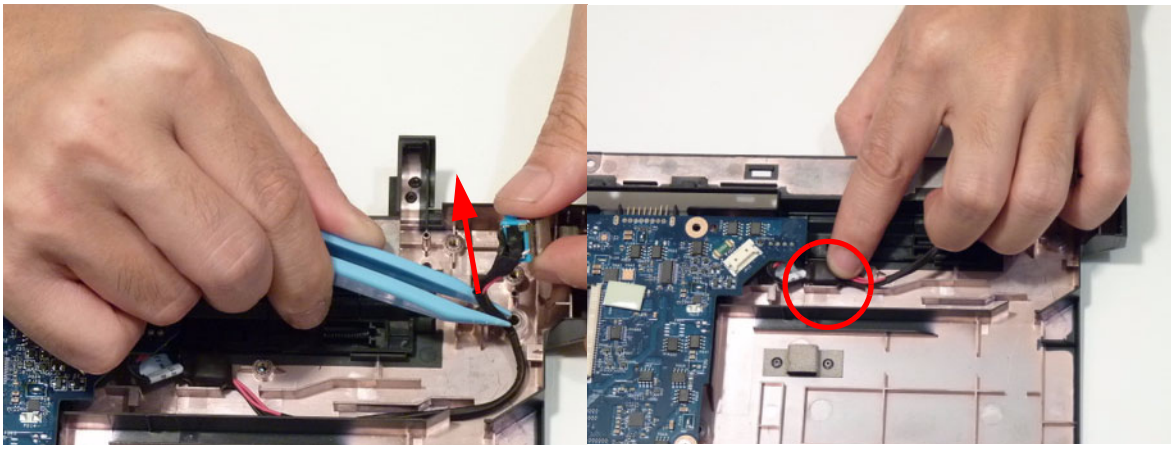


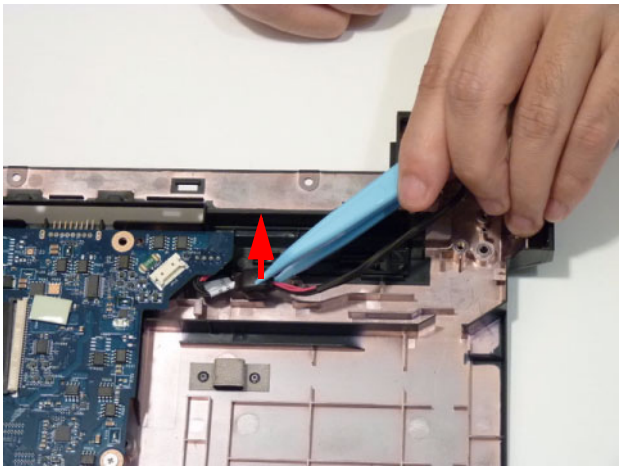
Removing the DC-IN Cable Assembly

1. See “Removing the Speakers” on page 82.
2. Locate and lift the DC-IN cable assembly out of the chassis.



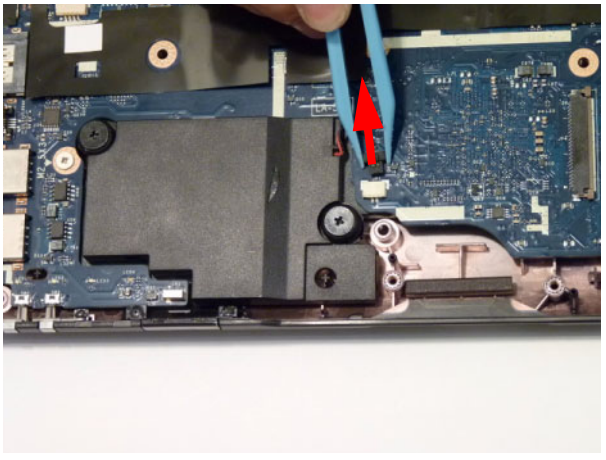
3. Remove the DC-IN cable from the cable guides.



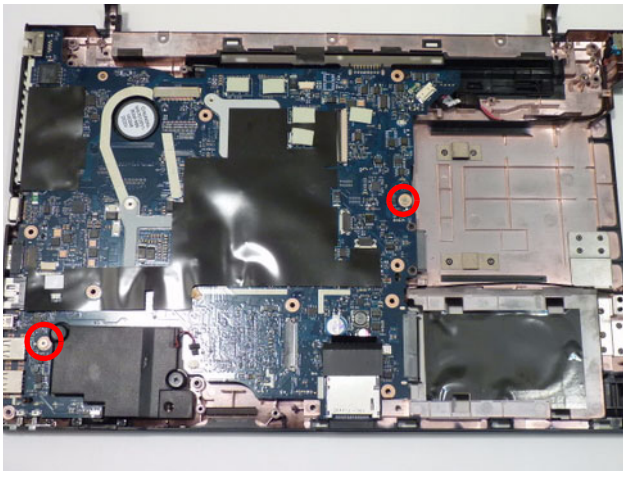


Removing the Mainboard

1. See “Removing the LCD Module” on page 79.
2. See “Removing the Speakers” on page 82.
3. See “Removing the Touchpad Board” on page 85.
4. See “Removing the Bluetooth Module” on page 86.
5. See “Removing the USB Board” on page 87.
6. Disconnect the subwoofer cable from the mainboard.

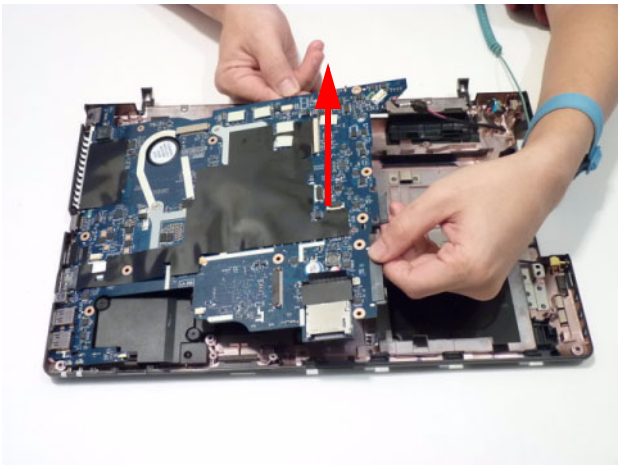


7. Remove two (2) screws from the mainboard.



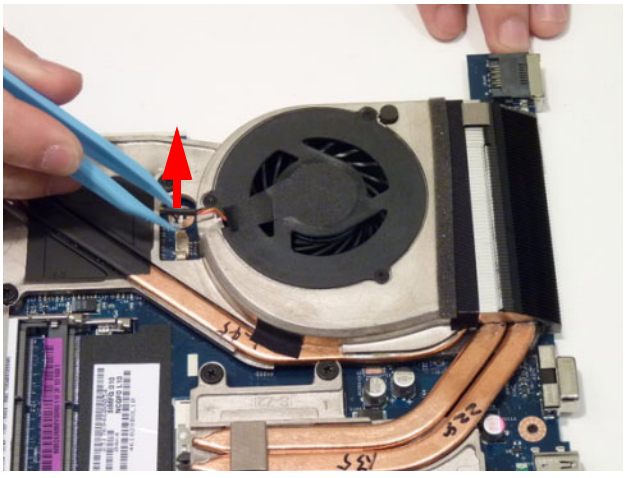
Step	Screw	Quantity	Screw Type.
Main Board Disassembly	M2.5*3Ni	2	

8. Make sure all cables are clear of the mainboard. Lift the mainboard out of the chassis as shown.

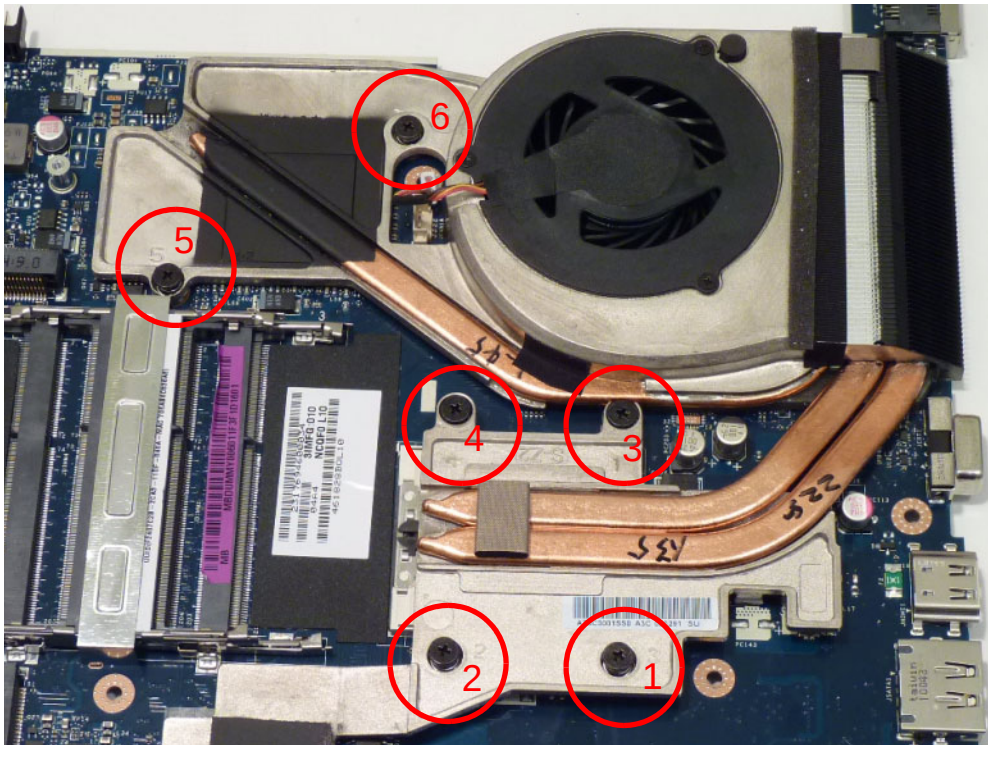


Removing the Thermal Module

1. See “Removing the DC-IN Cable Assembly” on page 89.
2. Disconnect the thermal module fan connector.

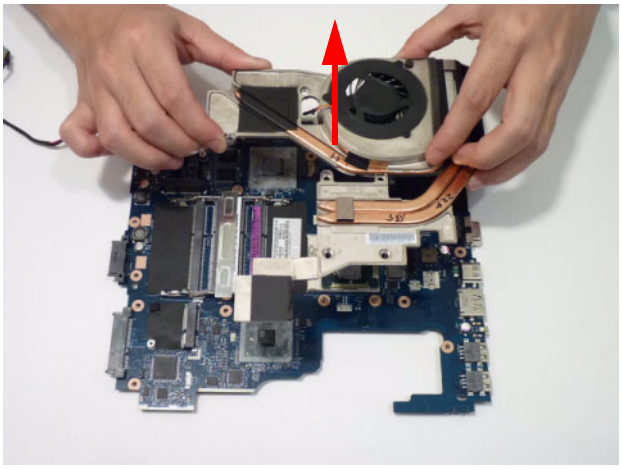


3. Loosen the six (6) spring screws in order: 6, 5, 4, 3, 2, and 1.



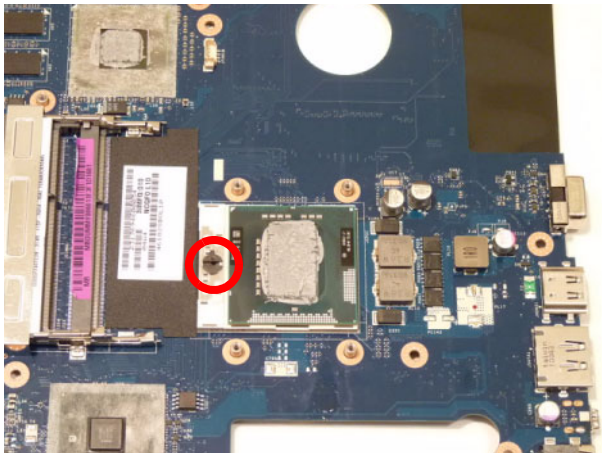
Step	Screw	Quantity	Screw Type.
Thermal Unit Disassembly	Spring Screws	6	

4. Lift the thermal module away from the main board.

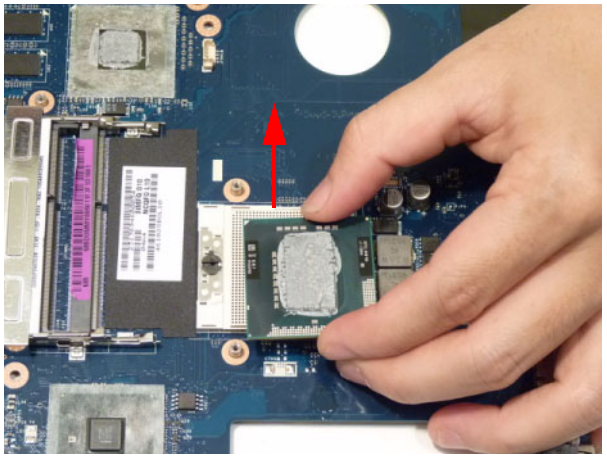


Removing the CPU

1. See “Removing the Thermal Module” on page 92..
2. Unlock the CPU. Use a flat head screw driver to turn the screw 180° counter clockwise.

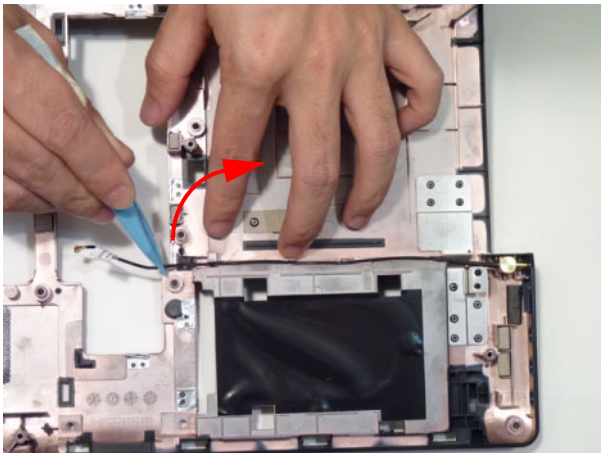


3. Lift the CPU out of the socket.

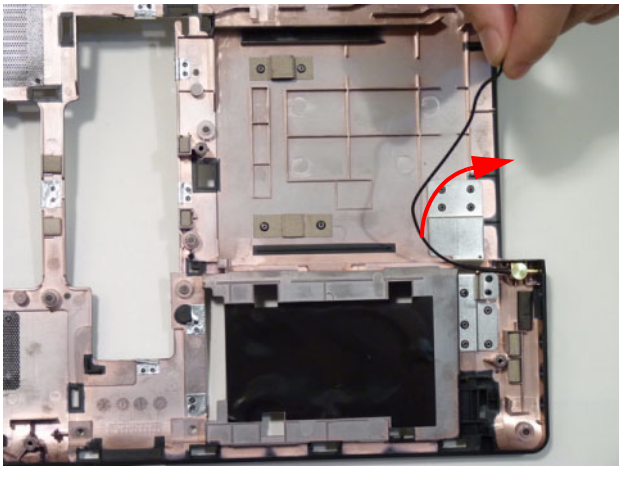


Removing the TV Tuner Cable Assembly

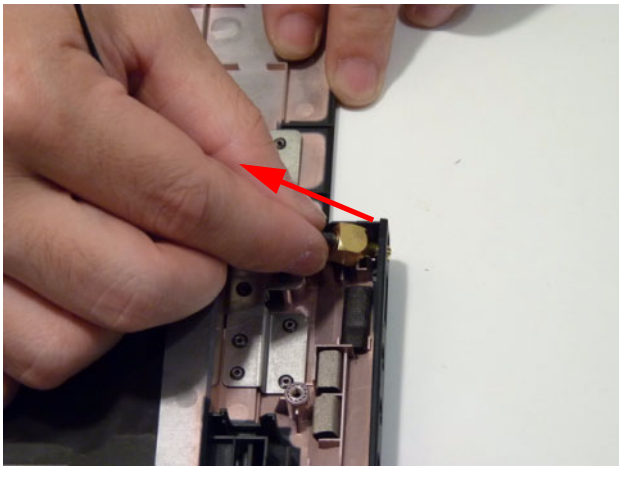
1. See “Removing the Speakers” on page 82.
2. Remove the TV Tuner cable from the cable clasps.



3. Remove the cable from the cable guides.

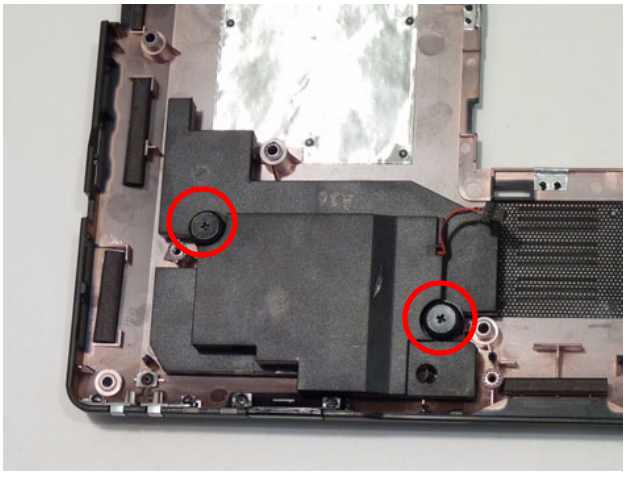


4. Lift the TV tuner assembly out of the chassis.

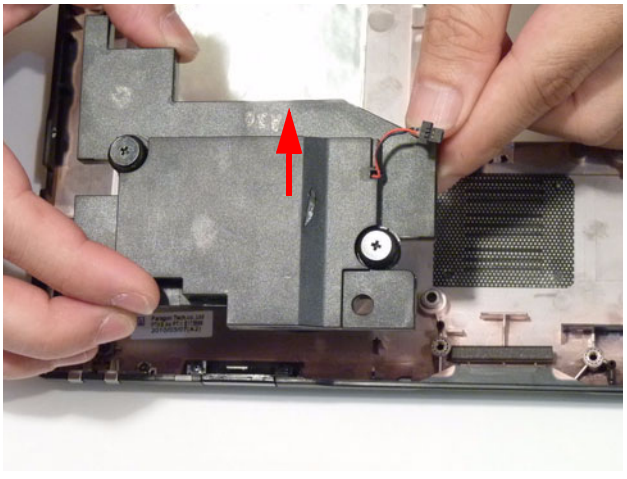


Removing the Subwoofer

1. See “Removing the LCD Hinge Bezel” on page 68.
2. See “Removing the DC-IN Cable Assembly” on page 89.
3. Locate and unscrew (2) captive screws.



4. Lift the subwoofer from the chassis.

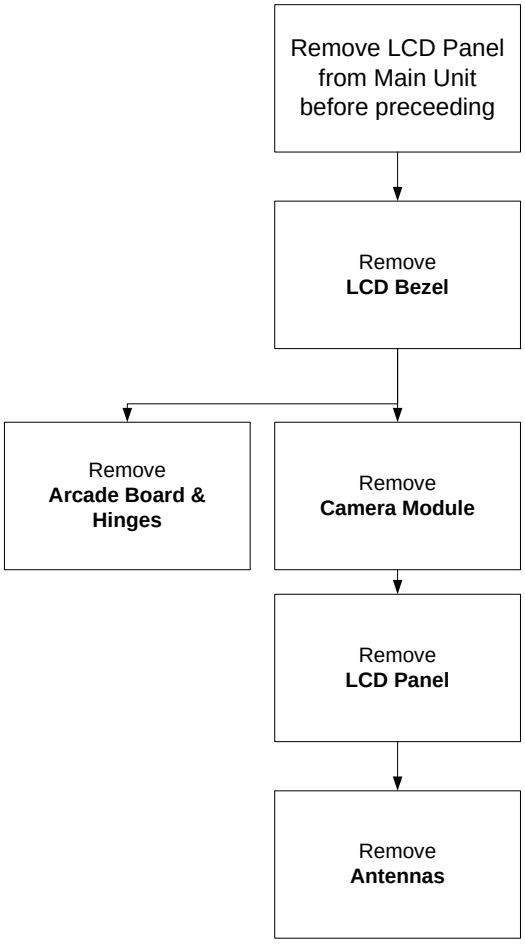


LCD Module Disassembly Process

IMPORTANT: Cable paths and positioning may not represent the actual model. During the removal and replacement of components, ensure all available cable channels and clips are used and that the cables are replaced in the same position.

NOTE: The product previews seen in the disassembly procedures may not represent the final product color or configuration.

LCD Module Disassembly Flowchart



NOTE: Flowchart needs to be updated

Screw List

Step	Screw	Quantity	Part No.
LCD Glass Panel Disassembly	M1.98*3	4	86.PWL02.002
LCD Bezel Disassembly	M2.5*3 Ni	4	86.PWL02.001

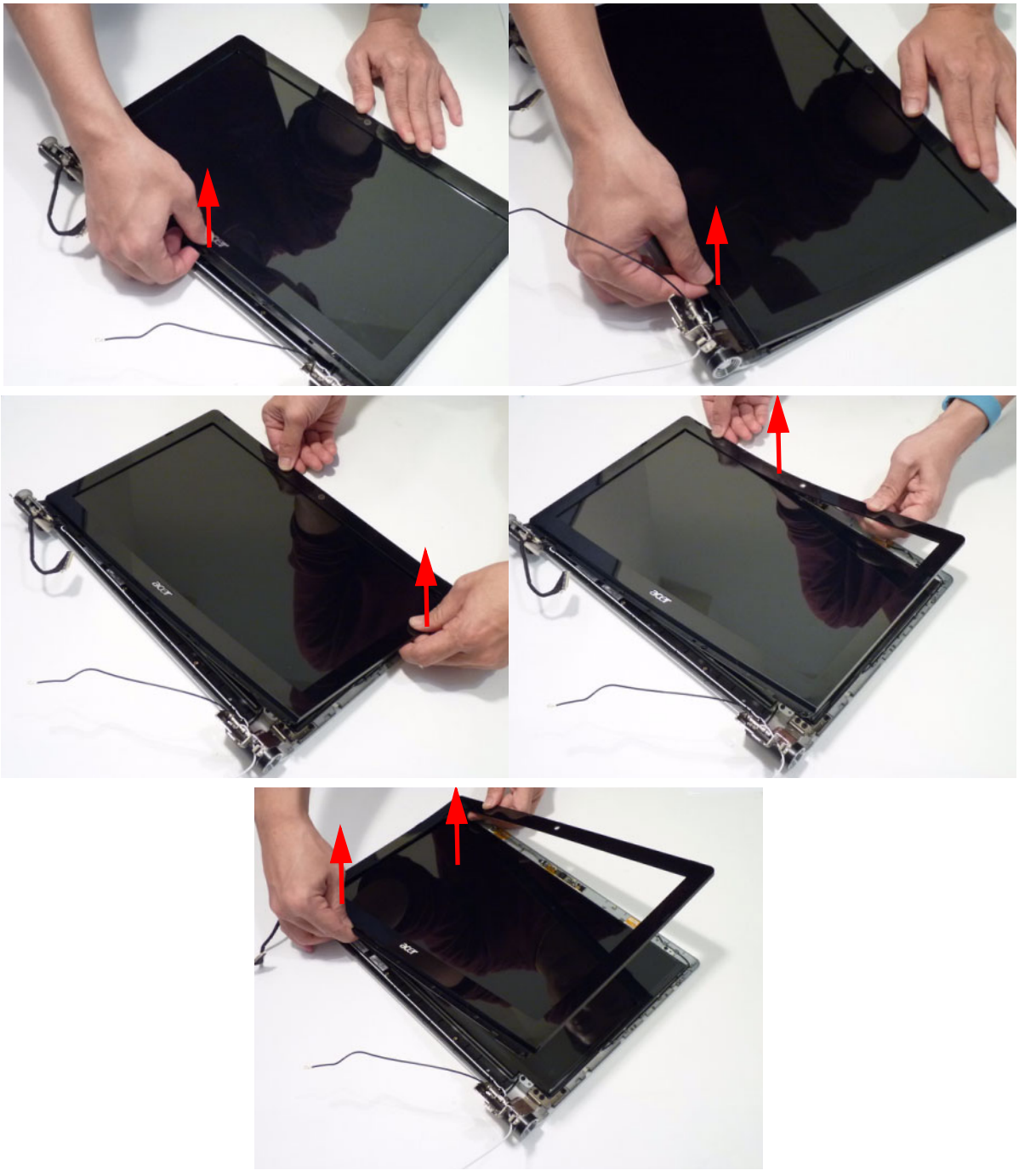
Removing the LCD Bezel

1. See “Removing the LCD Module” on page 79.
2. Remove four (4) screws from the bezel.

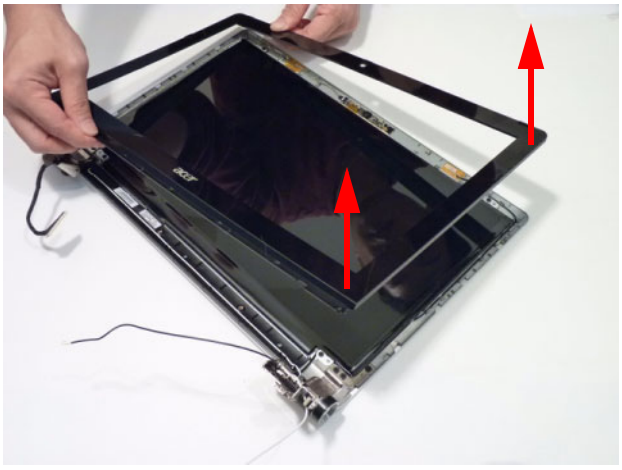


Step	Screw	Quantity	Screw Type
LCD Bezel Disassembly	M2.5*3	4	

3. Pry the bezel away starting at the bottom center. Then work around the front corners until the bezel is separated from the module.

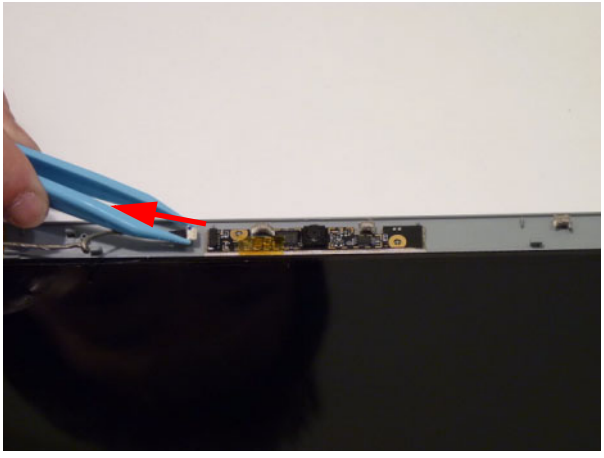


4. Remove the bezel from the LCD module.

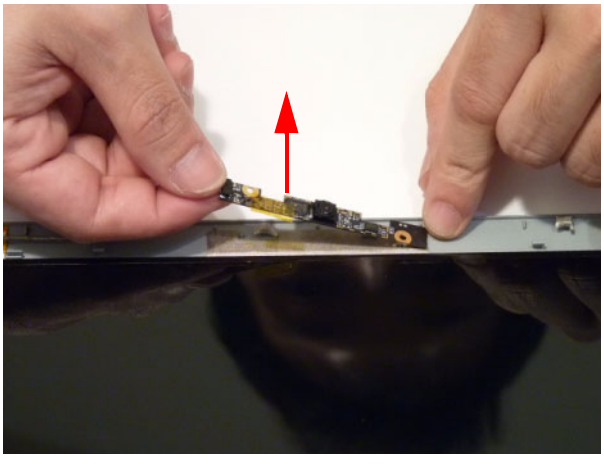


Removing the Camera Board

1. See “Removing the LCD Bezel” on page 98.
2. Disconnect the camera cable.



3. Pry the camera board away from the module.



Removing the Arcade Board and Hinges

1. See “Removing the LCD Bezel” on page 98.
2. Unscrew six (6) screws

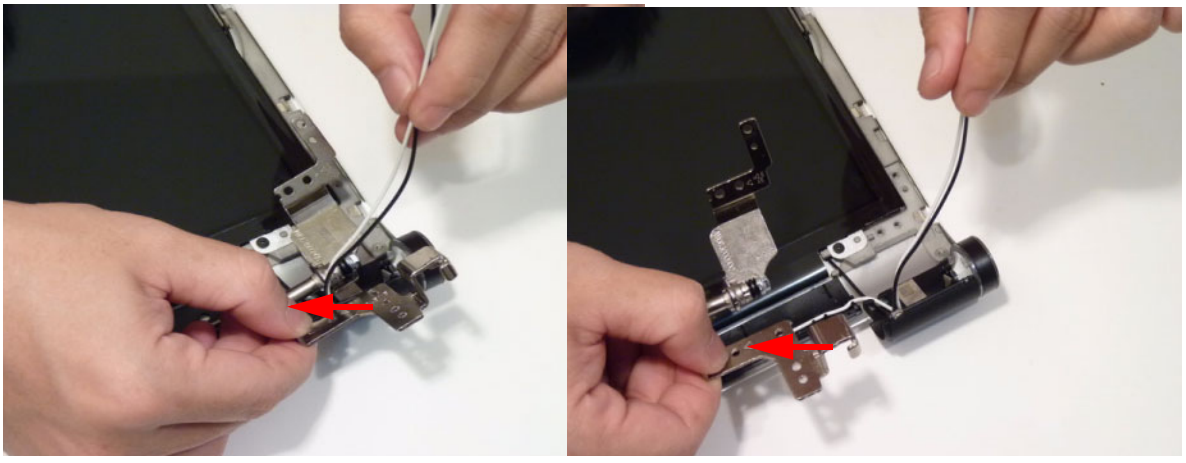


Step	Screw	Quantity	Screw Type
LCD Hinge Disassembly	M2.5*4	6	

3. Lift the left hinge from the LCD panel and remove the arcade board from the guide posts.



4. Separate the right hinge from the panel as shown.

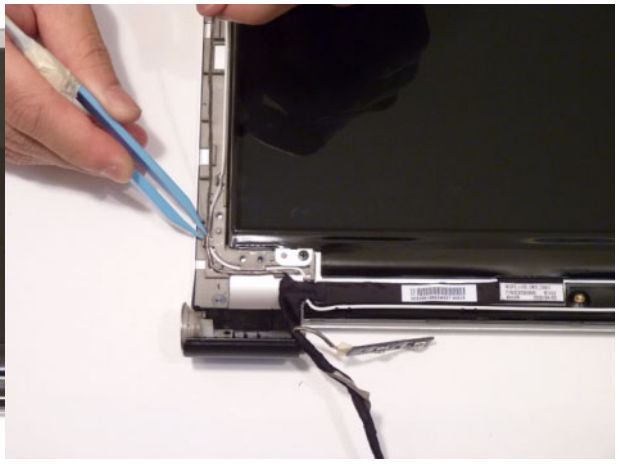


CAUTION: Make sure you clear the cables when removing the hinge.

Removing the LCD Panel

1. See “Removing the LCD Bezel” on page 98.
2. See “Removing the Camera Board” on page 101.
3. Remove the camera cable from the channel.



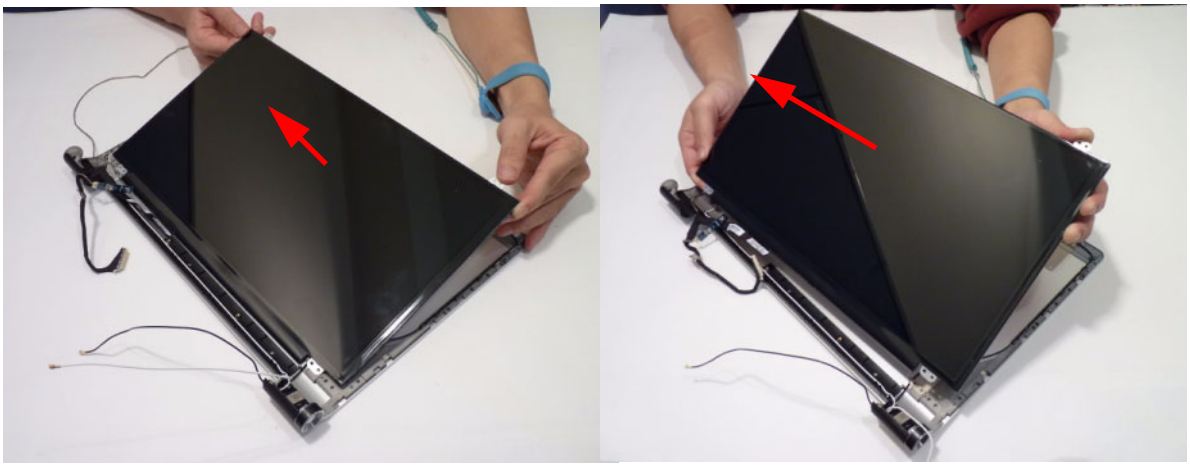


4. Remove the four (4) screws on the LCD panel.



Step	Screw	Quantity	Screw Type
LCD Panel Disassembly	M2.5*3	4	

5. Lift the LCD panel out of the module.



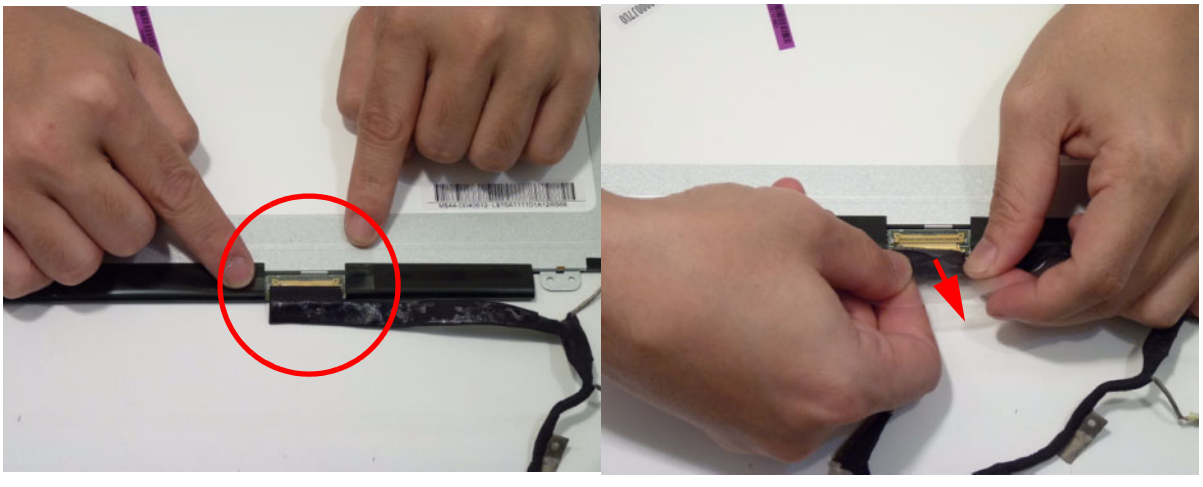
CAUTION: To avoid damage, make sure all cables near the hinge are free and clear to move.

6. Turn the LCD panel over.

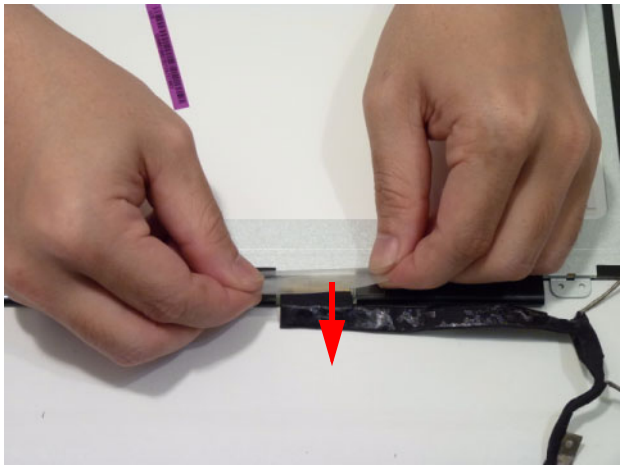


CAUTION: To avoid damage, make sure the surface is clean.

7. Locate the LVDS cable on the back of the LCD panel and peel back the mylar cover.

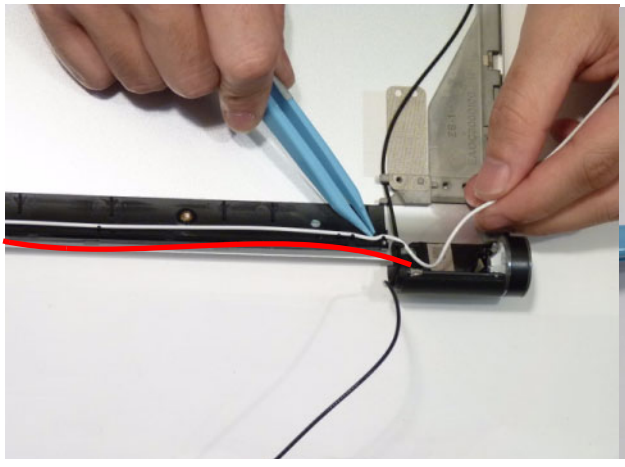


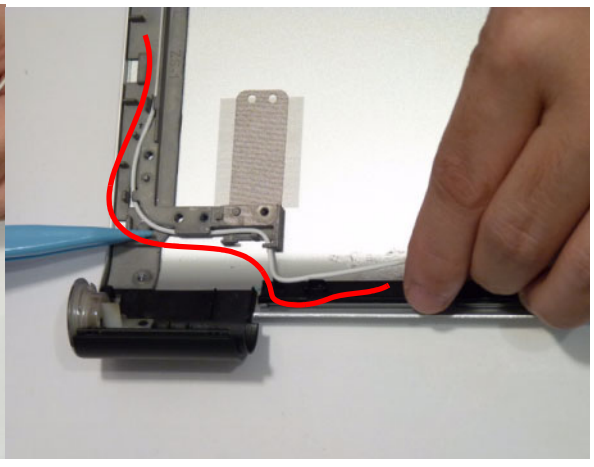
8. Disconnect the LVDS cable from the LCD panel.

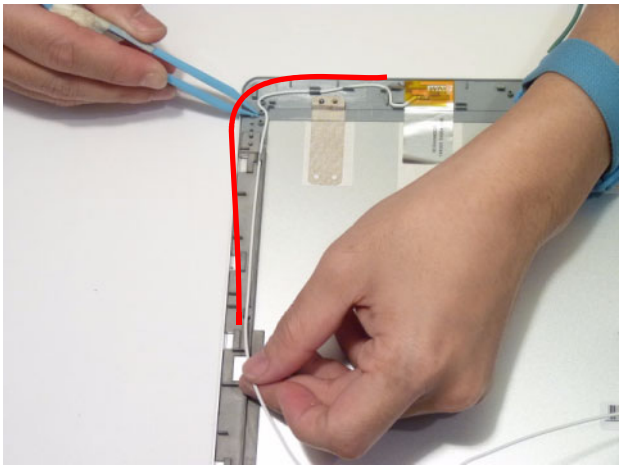


Removing the Antennas

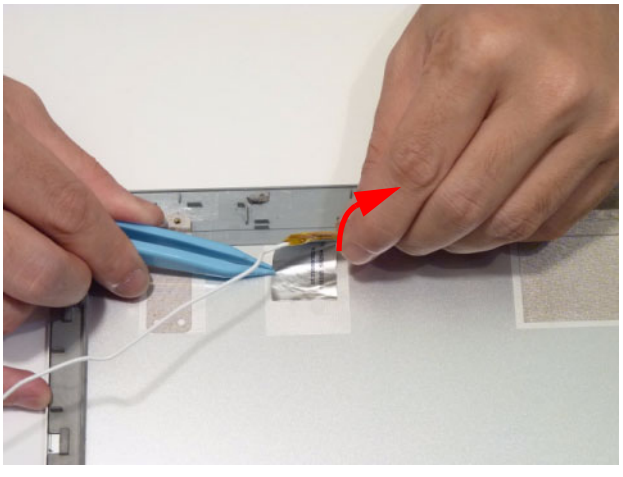
1. See “Removing the LCD Bezel” on page 98.
2. See “Removing the Camera Board” on page 101.
3. Remove the white cable from the cable guides.



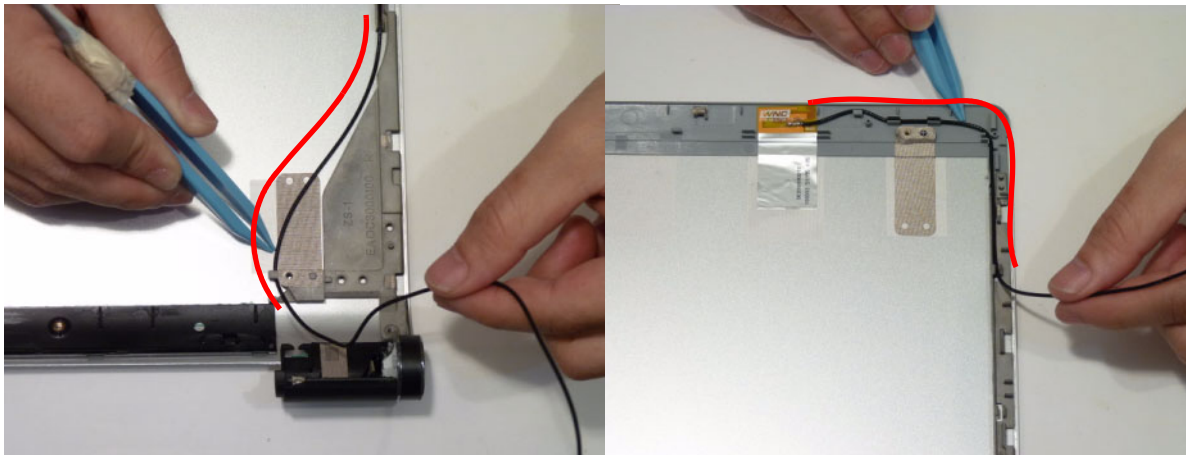




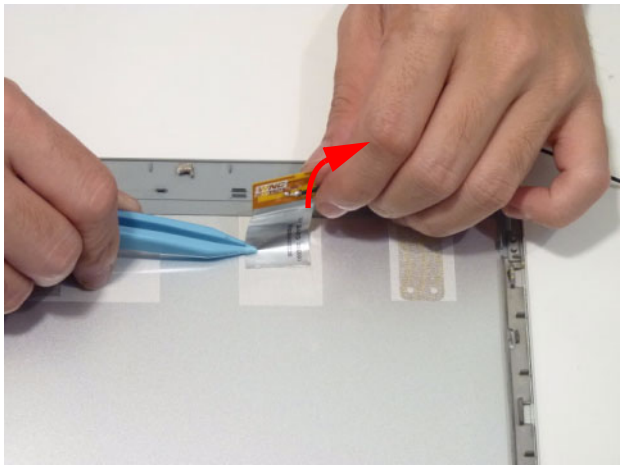
4. Using plastic tweezers, gently peel the antenna from the top cover.



5. Remove the black antenna cable from the cable guides.



6. Using plastic tweezers, gently peel the antenna from the top cover.

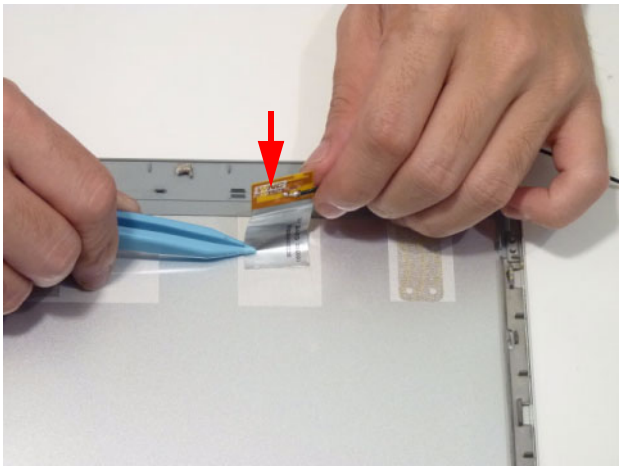


LCD Reassembly Procedure

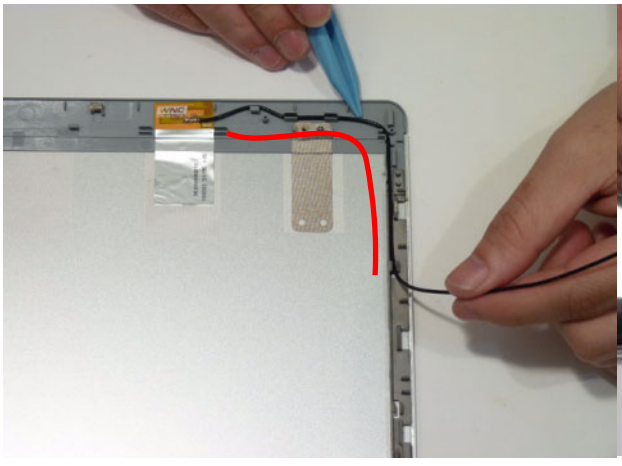
NOTE: During manufacture a cyanoacrylate glue is used provided by Holdtite Adhesives LTD. This is not a specified requirement. The reassembler is free to select an alternative appropriate adhesive.

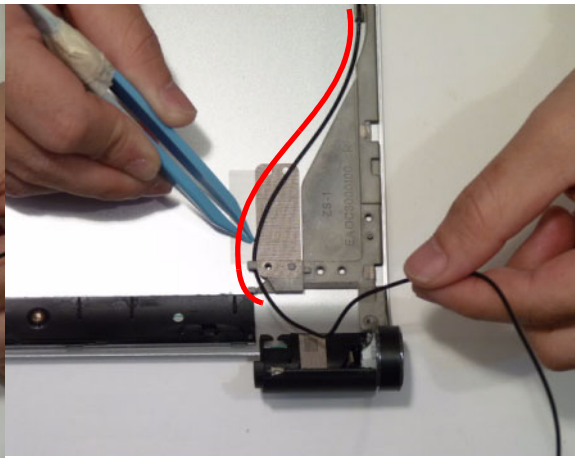
Replacing the Antennas

1. Place the antenna on the top cover.

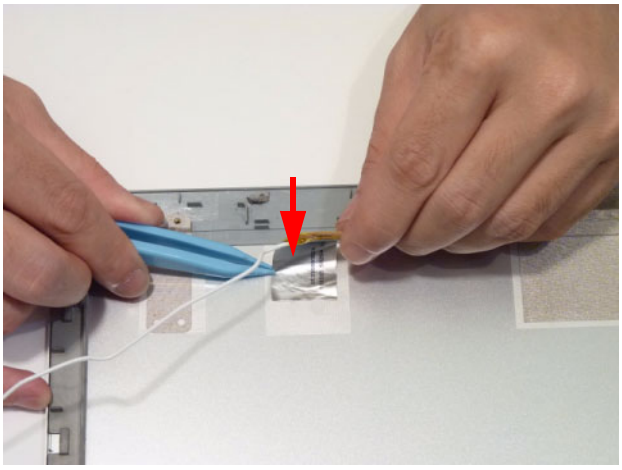


2. Using the cable guides, place the black antenna cable into the cable guides as shown.

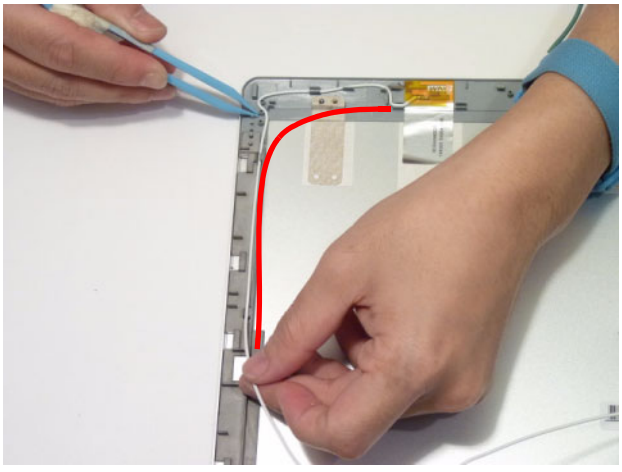


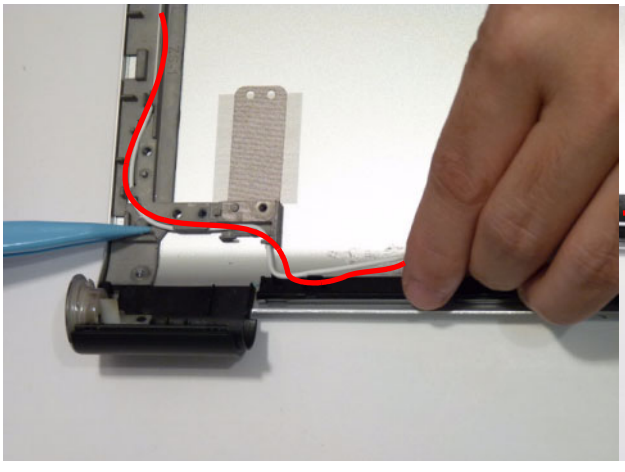


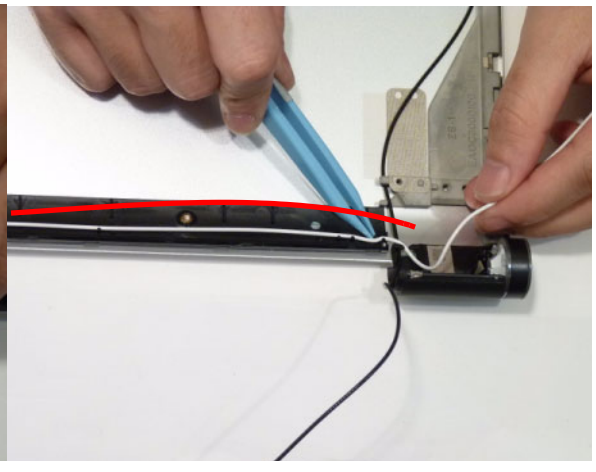
3. Place the antenna onto the top cover.



4. Using the cable guides, place the white cable into the cable guides as shown.

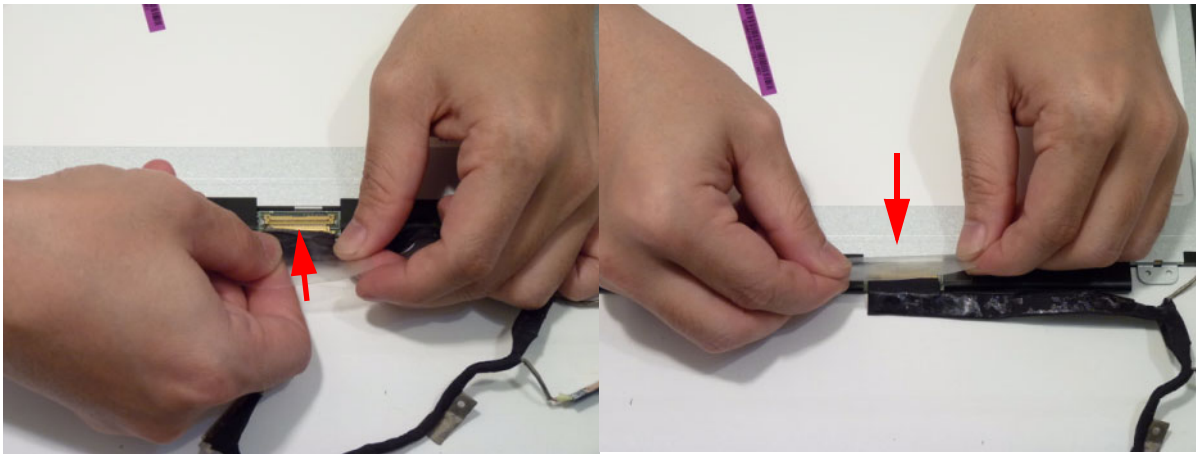




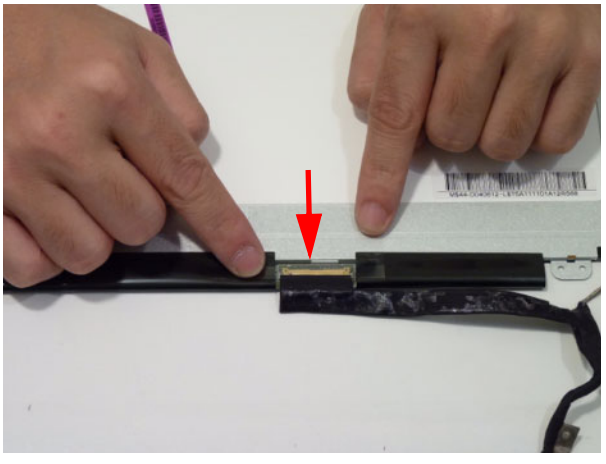


Replacing the LCD Panel

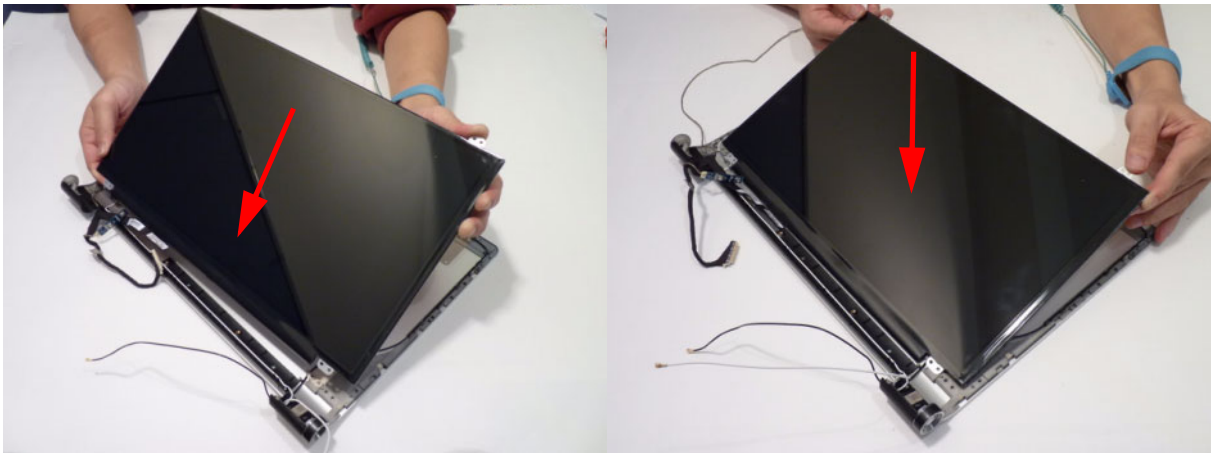
1. Connect the LVDS cable to the panel and adhere the mylar to secure the connector.



2. Press down on the mylar cover to adhere the adhesive to the panel as shown.



3. Place the LCD panel onto the module.



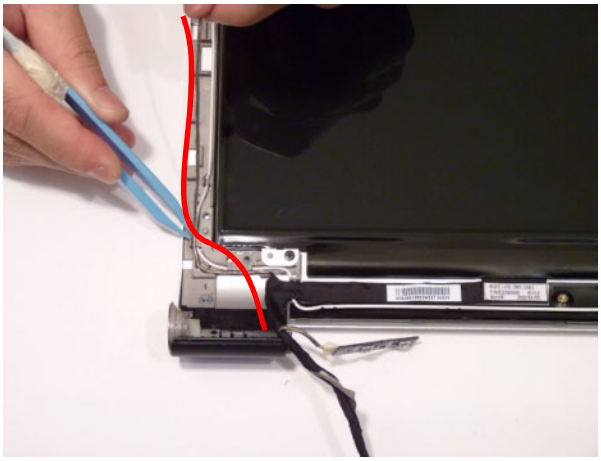
CAUTION: To avoid damage, make sure all cables near the hinge are free and clear to move.

4. Secure the four (4) screws on the LCD panel.



Step	Screw	Quantity	Screw Type
LCD Panel Assembly	M2.5*3	4	

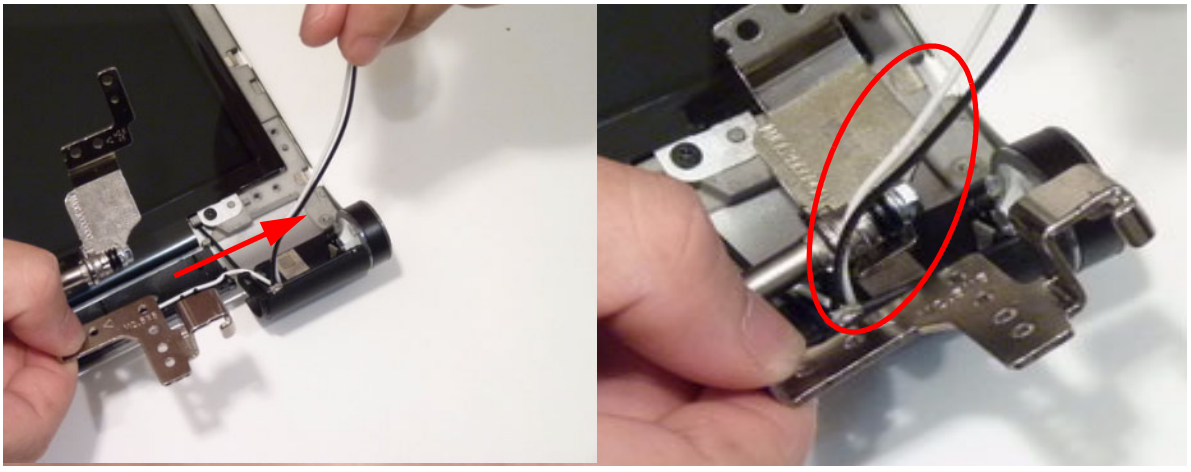
5. Place the camera cable into the channel.





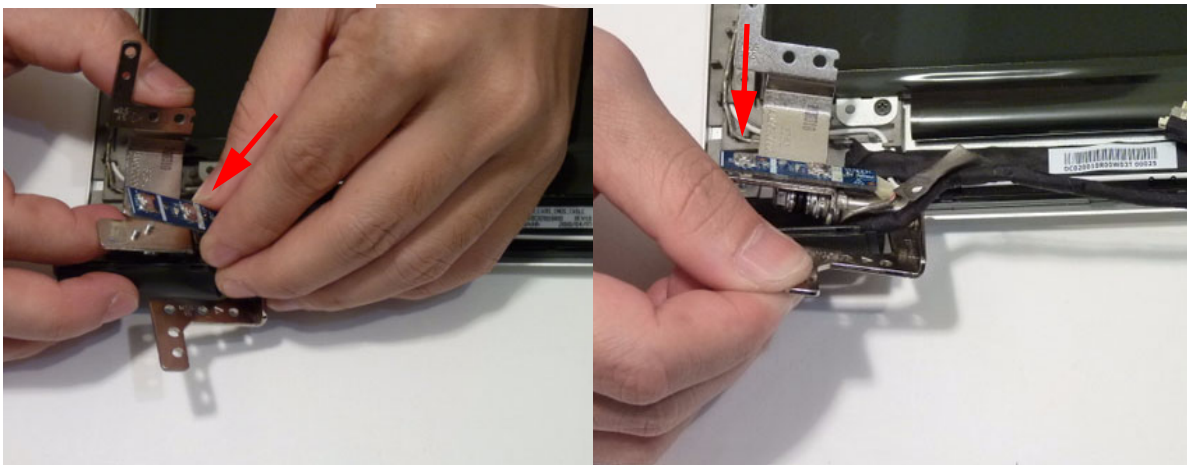
Replacing the Arcade Board and Hinges

1. Attach the right hinge onto the panel as shown.



CAUTION: Make sure the black and white antenna cables are placed in between the top and bottom plates of the hinge when reattaching the hinge.

2. Place the arcade board onto the left hinge using the guide posts and re-attach the hinge to the top cover.



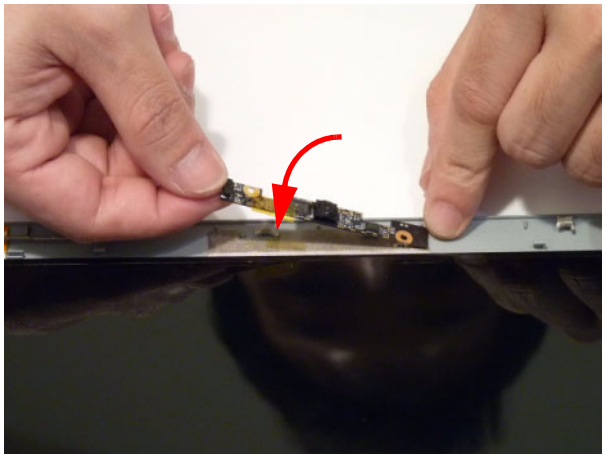
3. Secure six (6) screws



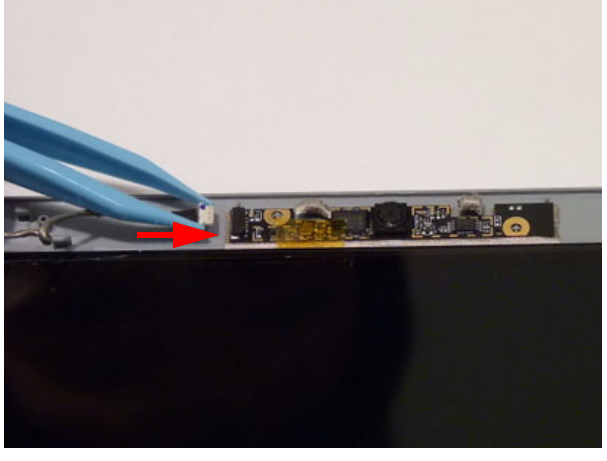
Step	Screw	Quantity	Screw Type
LCD Hinge Assembly	M2.5*4	6	

Replacing the Camera Board

1. Place the camera board on the top cover.

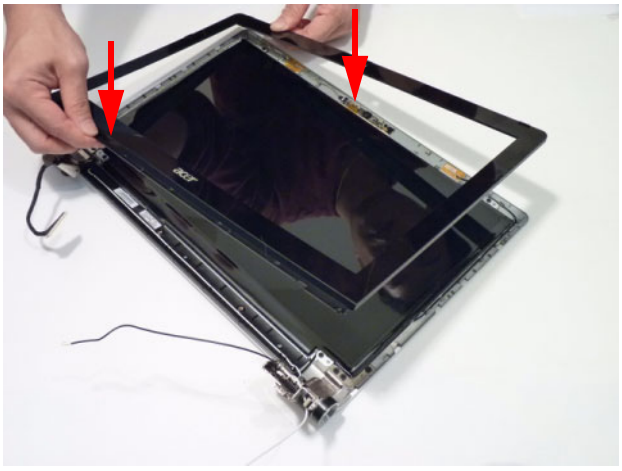


2. Connect the camera cable to the camera board.

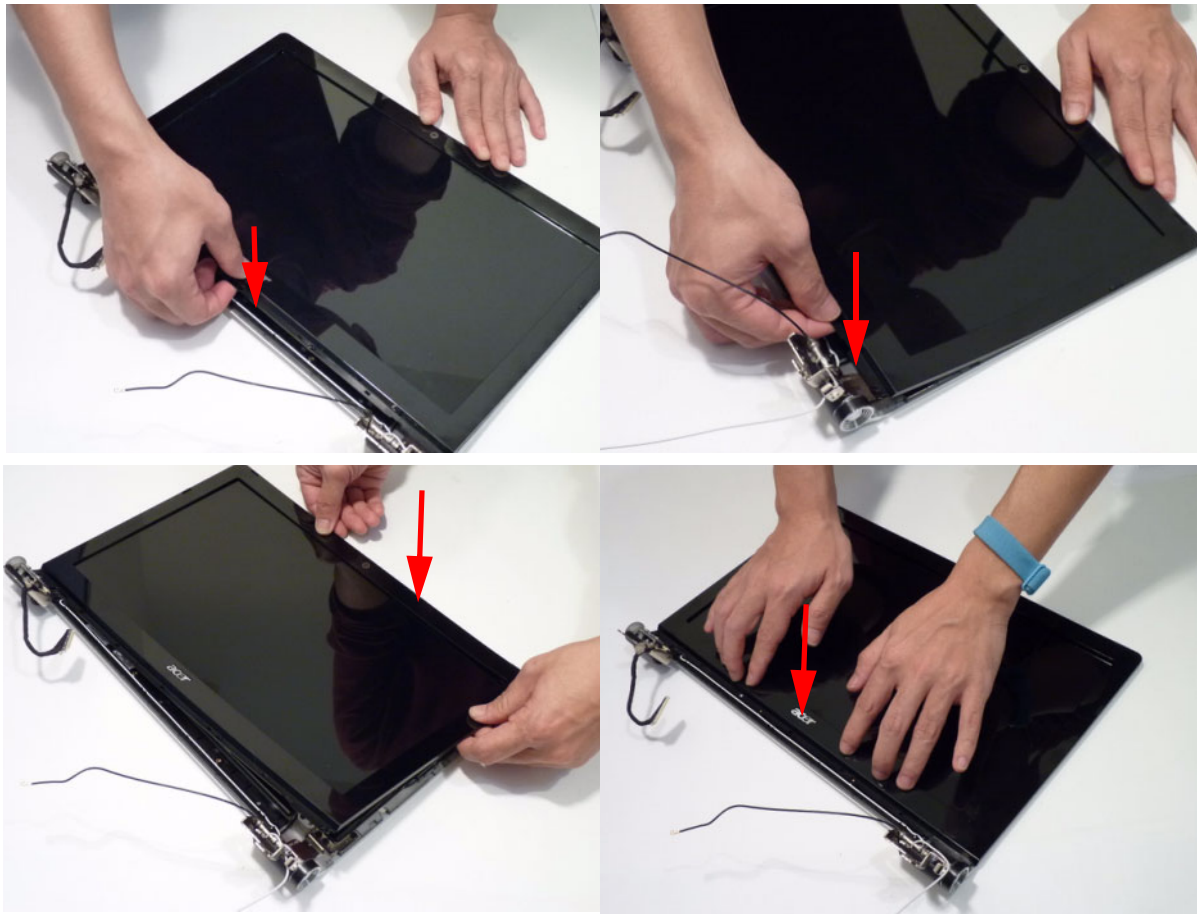


Replacing the LCD Bezel

1. Place the bezel onto the LCD module.



2. Secure the bezel away starting at the bottom center. Then work around the front corners until the bezel is attached to the module.



3. Secure four (4) screws onto the bezel.

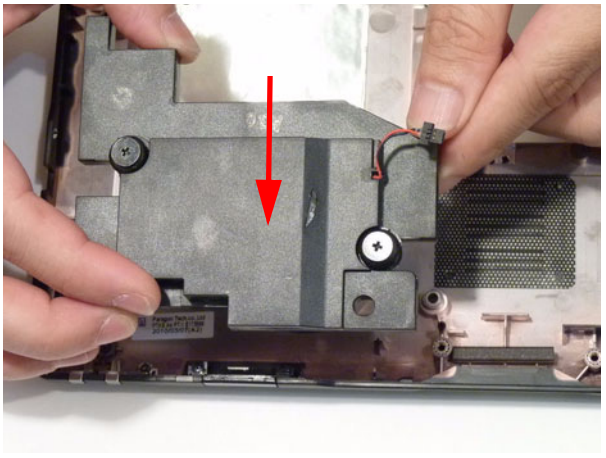


Step	Screw	Quantity	Screw Type
LCD Bezel Assembly	M2.5*3	4	

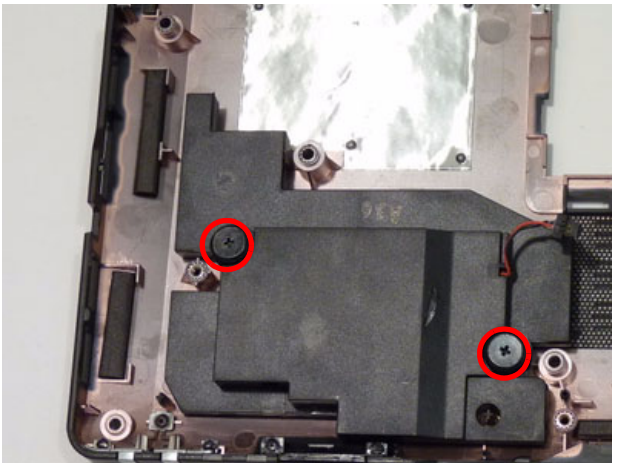
Main Unit Reassembly Process

Replacing the Subwoofer

1. Place the subwoofer onto the chassis.

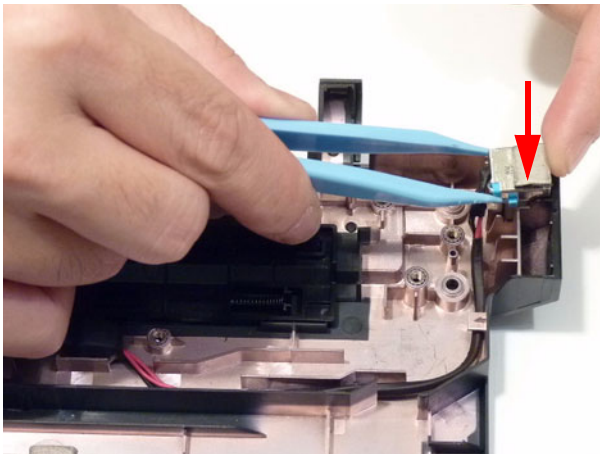


2. Secure two (2) captive screws.



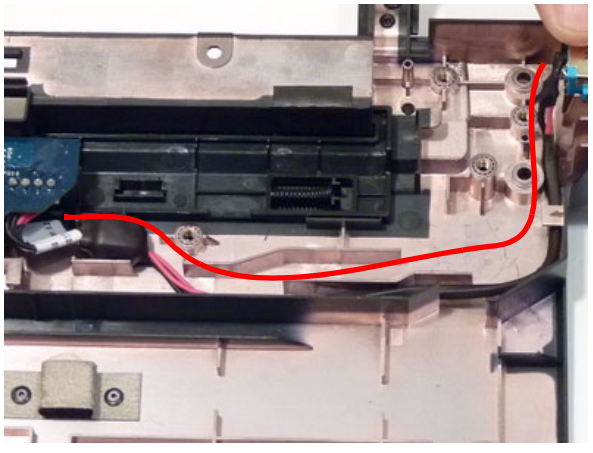
Replacing the DC-IN Cable Assembly

1. Place the DC-IN port on the chassis.



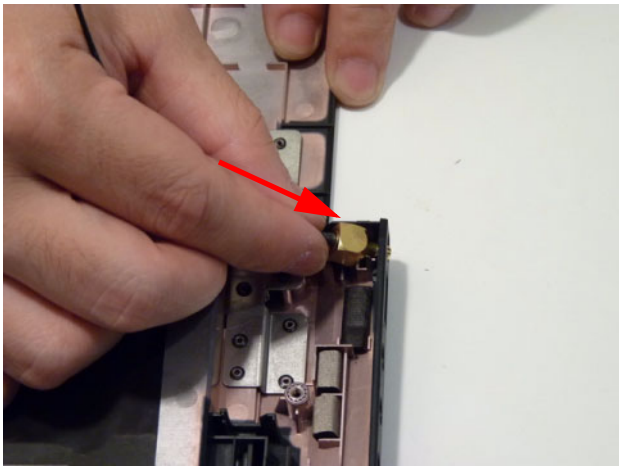
IMPORTANT: Make sure the port is lined up with the lower cover to ensure proper functioning.

2. Run the DC-IN cable along the cable guides as shown.



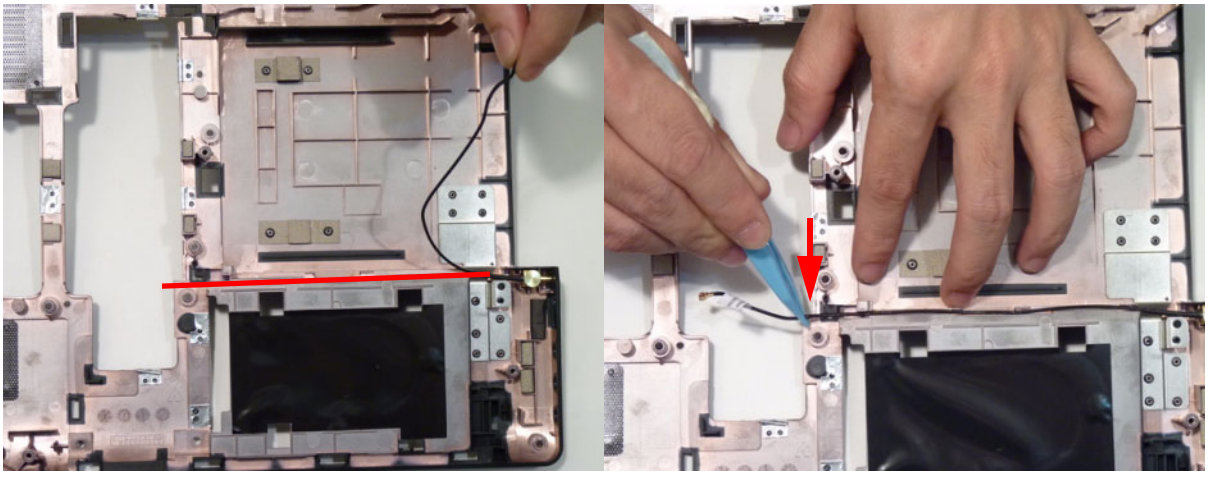
Replacing the TV Tuner Cable Assembly

1. Place the TV Tuner port in the chassis.



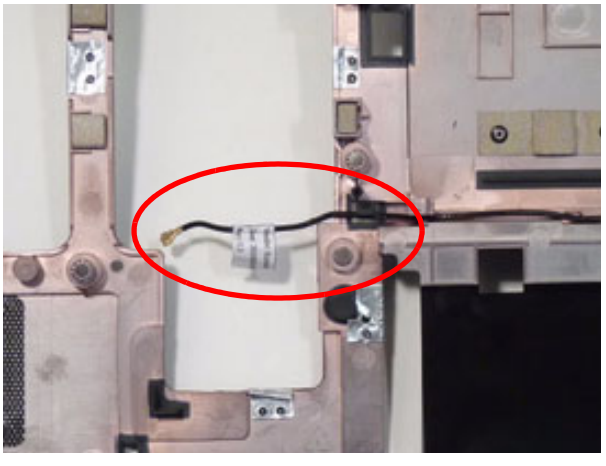
IMPORTANT: Make sure the port is lined up with the lower cover to ensure proper functioning.

2. Run the TV Tuner cable along the cable guides as shown.



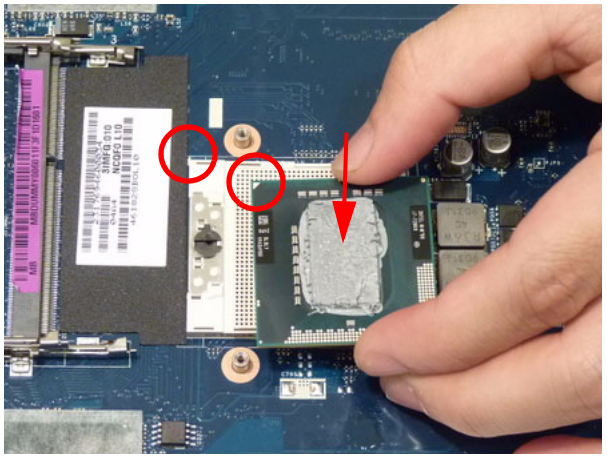
IMPORTANT: Make sure the cable is secured in all cable clips and around all retention guides for proper installation.

3. Place the TV Tuner cable as shown so it can be reached from beneath the chassis.

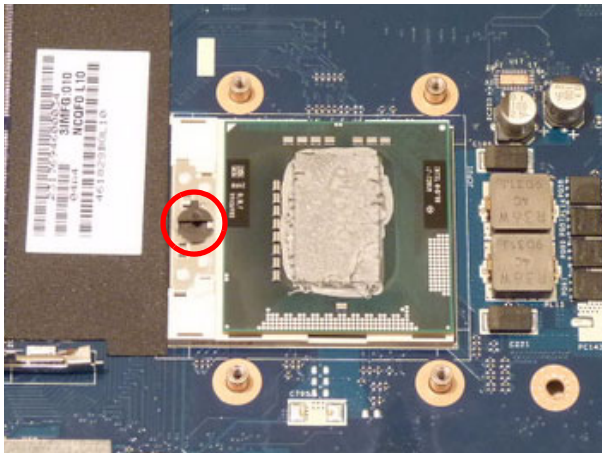


Replacing the CPU

1. Place the CPU into the socket.



2. Lock the CPU. Use a flat head screw driver to turn the screw 180^{o} clockwise.



NOTE: The location of the locking lug on the CPU screw.

Replacing the Thermal Module

IMPORTANT: Apply a suitable thermal grease and ensure all heat pads are in place before replacing the Thermal Module.

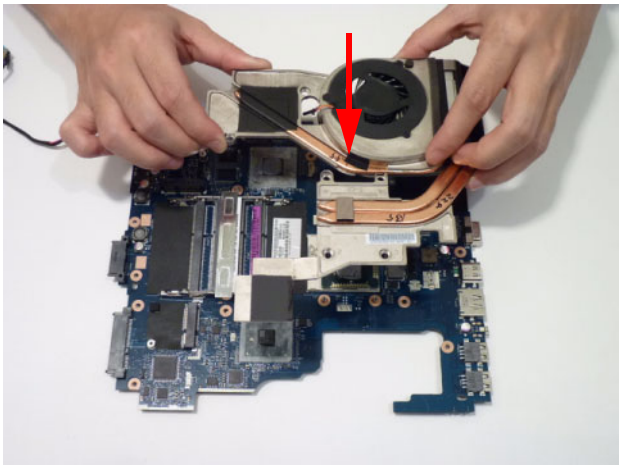
The following thermal grease types are approved for use:

- Silmore GP50
- Honeywell
- Jet Motor 7762

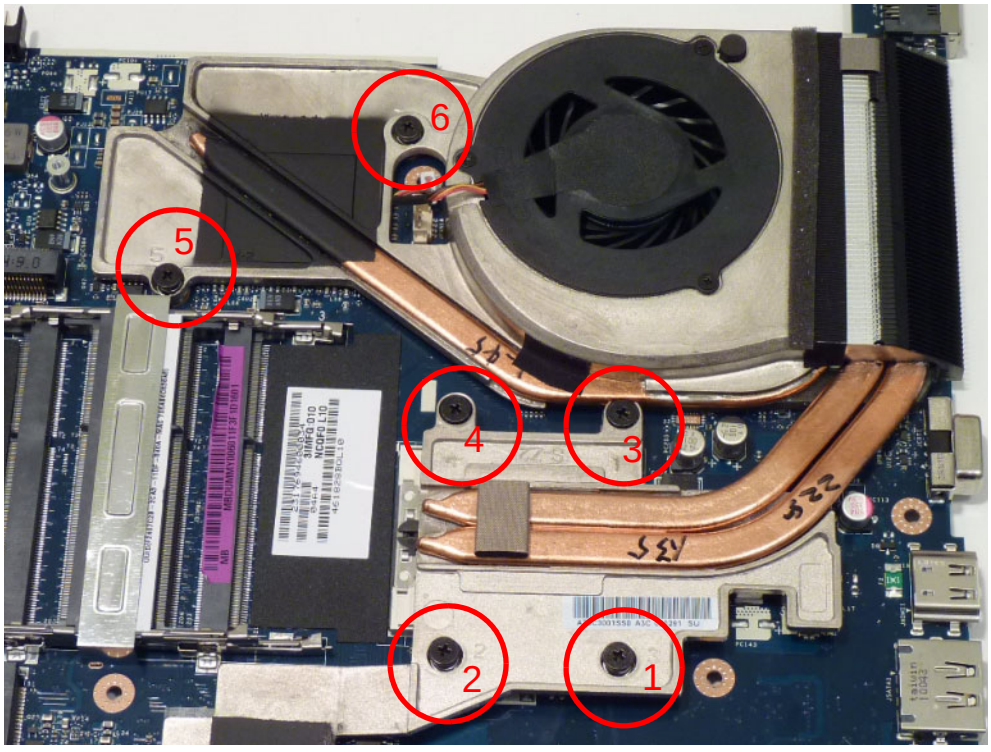
The following thermal pads are approved for use:

- Eapus XR-PE

1. Remove all traces of thermal grease from the CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply a small amount of thermal grease to the centre of the CPU—there is no need to spread the grease manually, the force used during the installation of the Thermal Module is sufficient.
3. Align the screw holes on the Thermal Module and Mainboard then replace the module. Keep the module as level as possible to spread the thermal grease evenly.

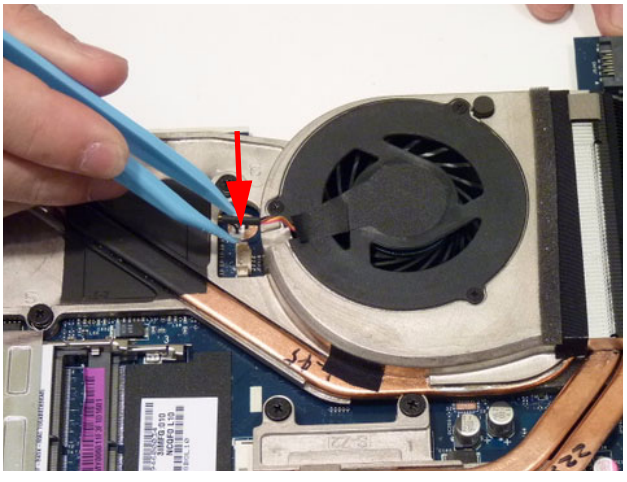


4. Replace the six (6) spring screws (in numerical order from screw 1 to 6) to secure the Thermal Module in place.



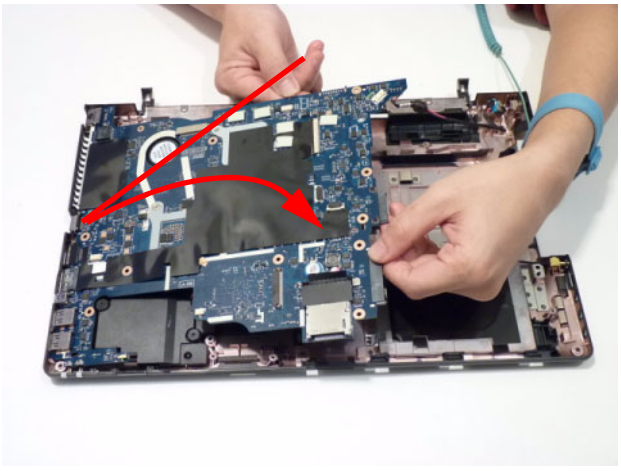
Step	Screw	Quantity	Screw Type.
Thermal Module Assembly	Spring Screw	6	

5. Connect the fan cable.



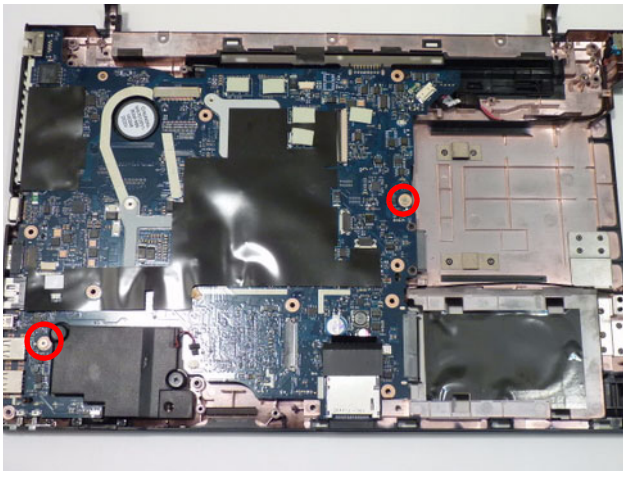
Replacing the Mainboard

1. Slide the main board external connector edge in first to the lower case, then lower into place.



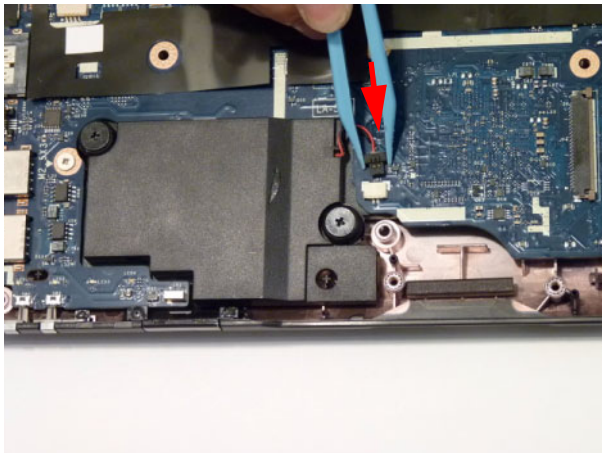
IMPORTANT: Make sure all cables are clear of the mainboard to avoid damage.

2. Replace two (2) screws from the mainboard.



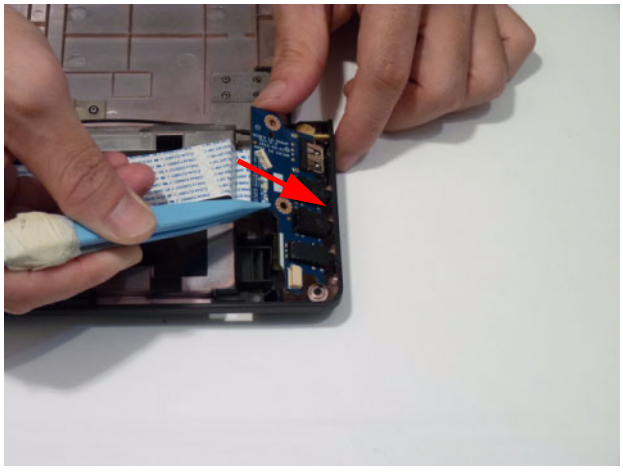
Step	Screw	Quantity	Screw Type.
Main Board Assembly	M2.5*3Ni	2	

3. Connect the speaker cable to the mainboard.

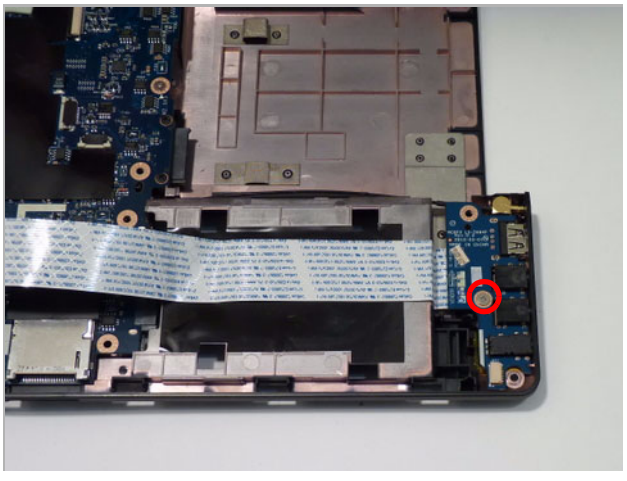


Replacing the USB Board

1. Place the USB board into the lower cover by first lining up the ports with the connector bracket.

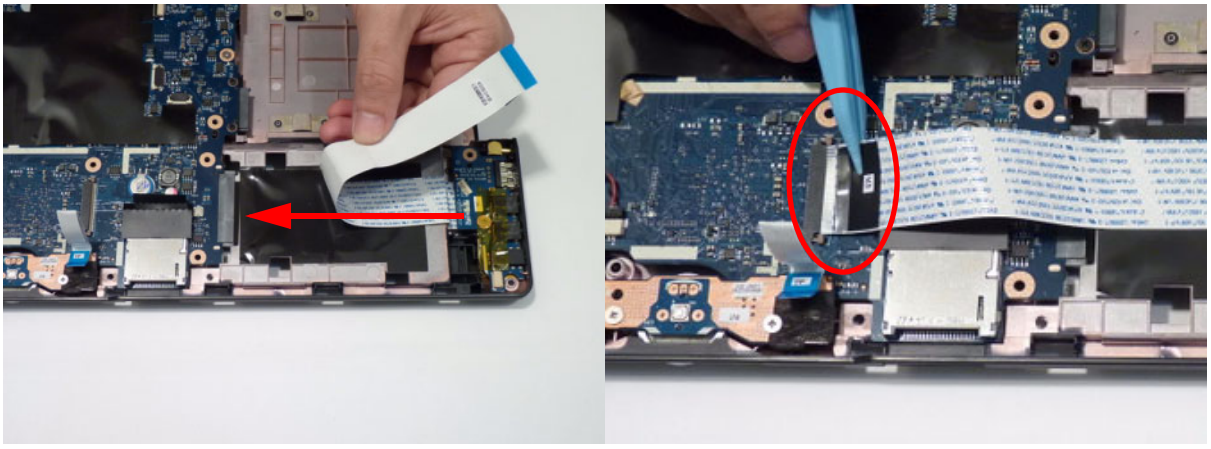


2. Replace the one (1) screw.

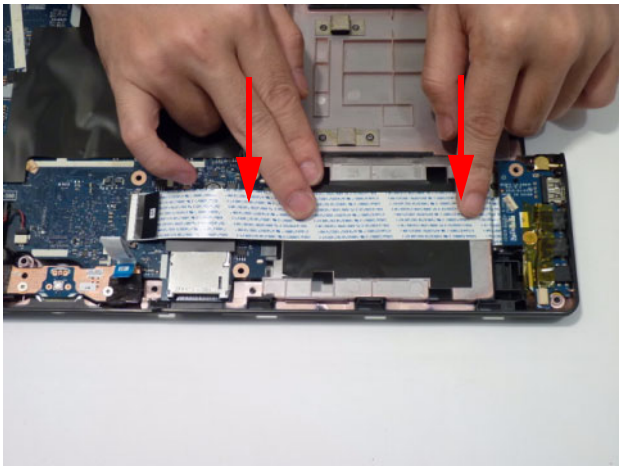


Step	Screw	Quantity	Screw Type.
USB Module Assembly	M2.5*3	1	

3. Connect and lock the USB board FFC to the USB board.

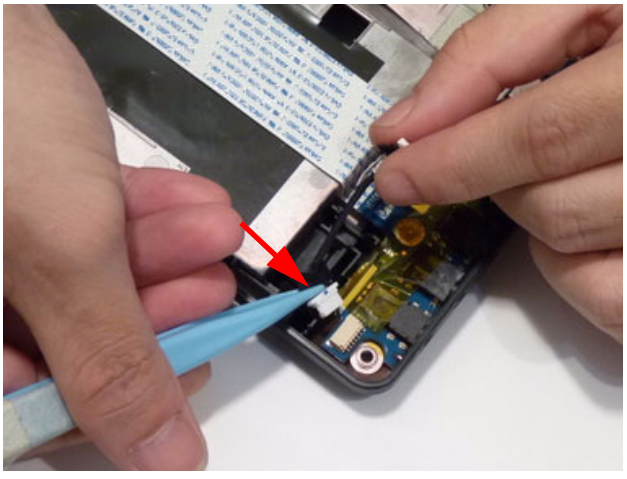


4. Press down on the FFC to adhere it to the lower cover.

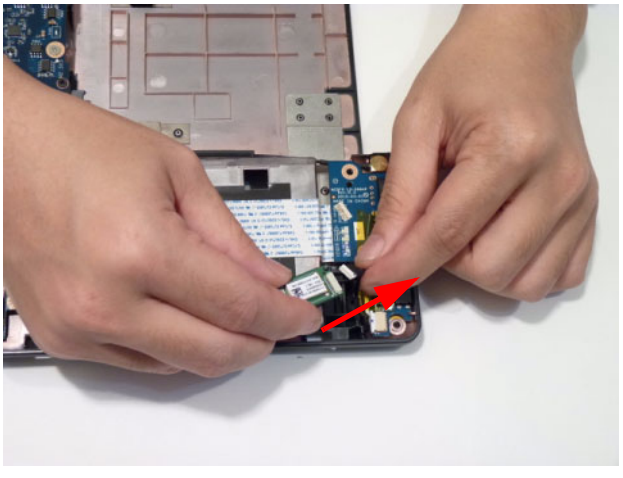


Replacing the Bluetooth Module

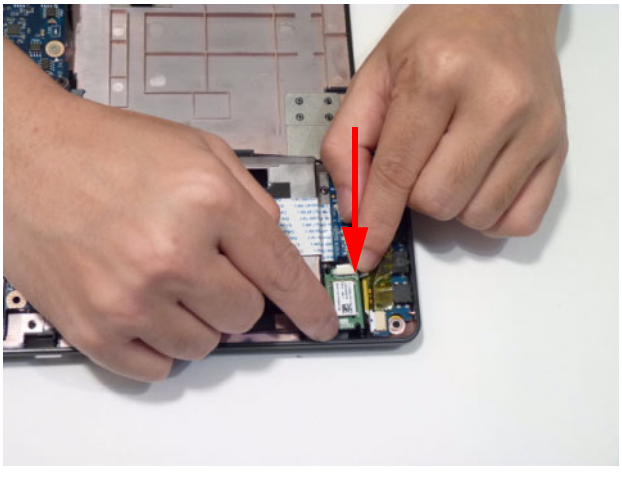
1. Connect the Bluetooth cable to the module.



2. Place the cable in the cable clip as shown

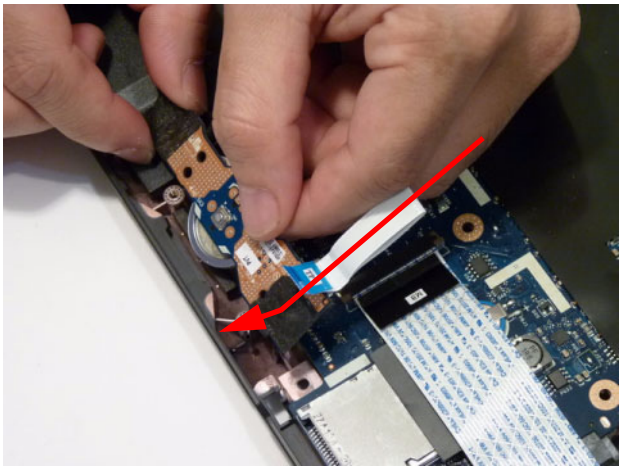


3. Place the Bluetooth module onto the mainboard.

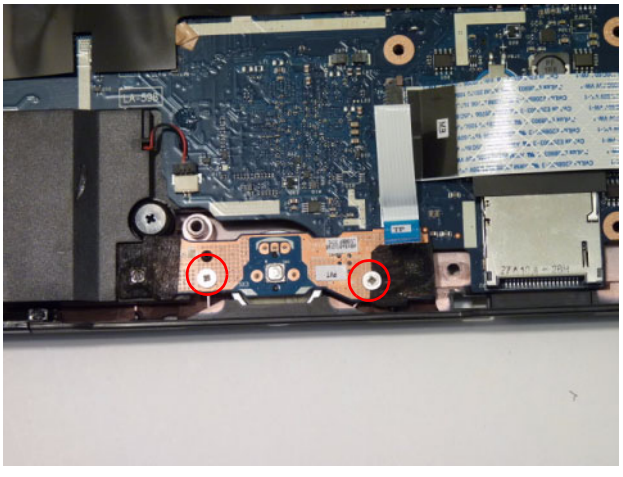


Replacing the Touchpad Board

1. Place board at an angle and insert the volume knob into it's designated slot.



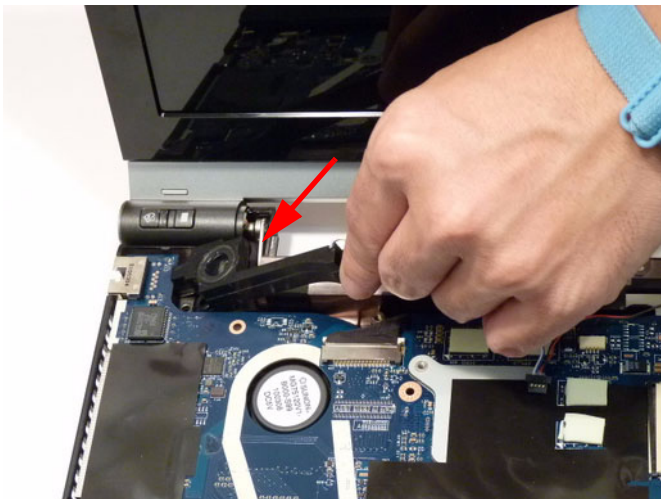
2. Replace the two (2) screws.



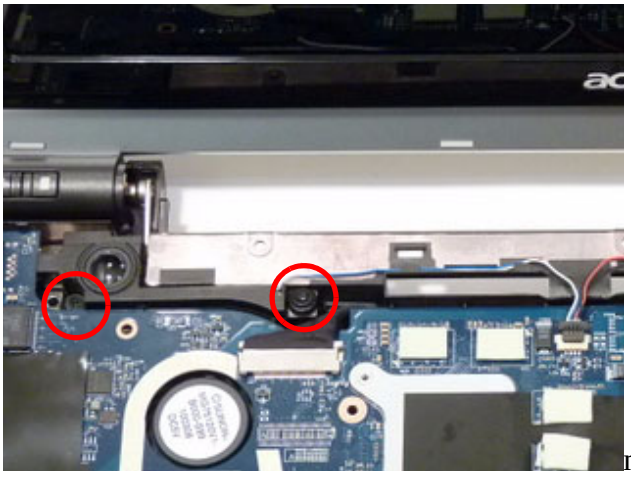
Step	Screw	Quantity	Screw Type.
Touchpad Board Assembly	M2-0.4*2	2	

Replacing the Speakers

1. Place the left speaker assembly into the lower cover as shown so that it does not get caught on the mainboard.

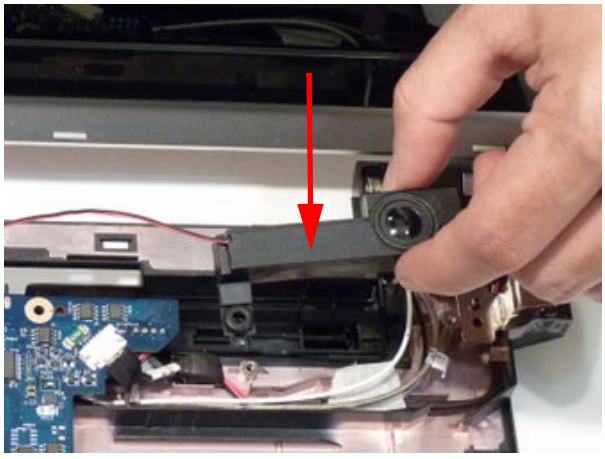


2. Secure two (2) screws to left speaker.

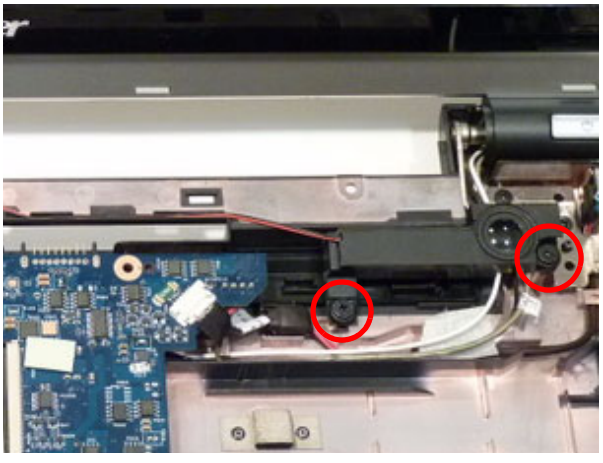

m

Step	Screw	Quantity	Screw Type
Front Speaker Assembly	M2.5*5.7	2	

3. Place the right speaker into the lower cover.

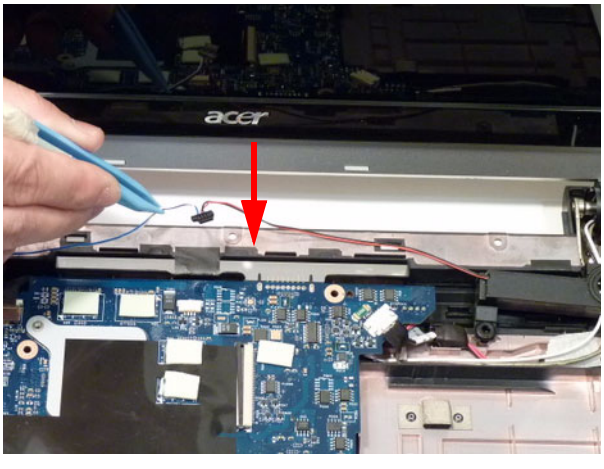


4. Secure two (2) screws to the right speaker.

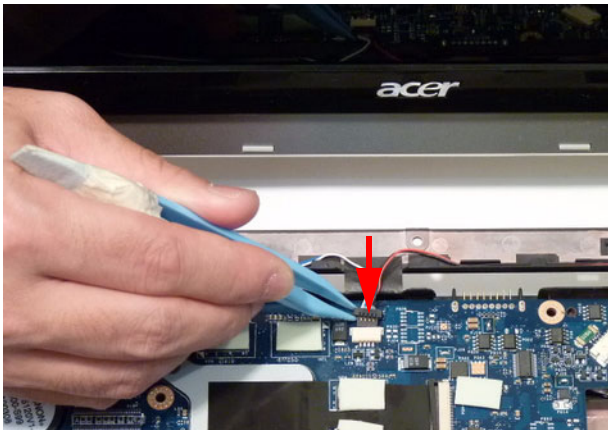


Step	Screw	Quantity	Screw Type.
Front Speaker Assembly	M2.5*5.7	2	

5. Place the speaker cable into the cable guides.

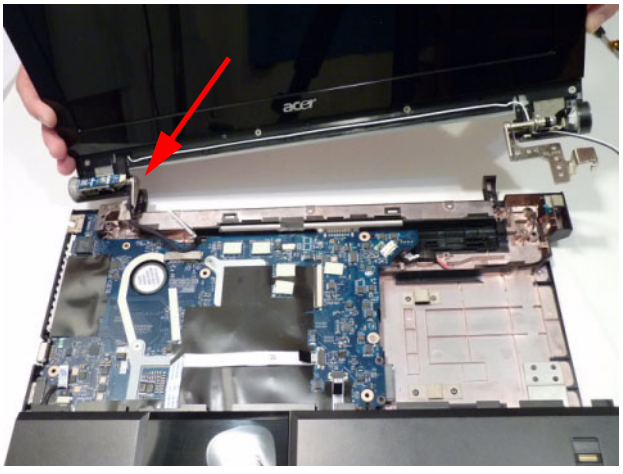


6. Connect the speaker cable to the mainboard.

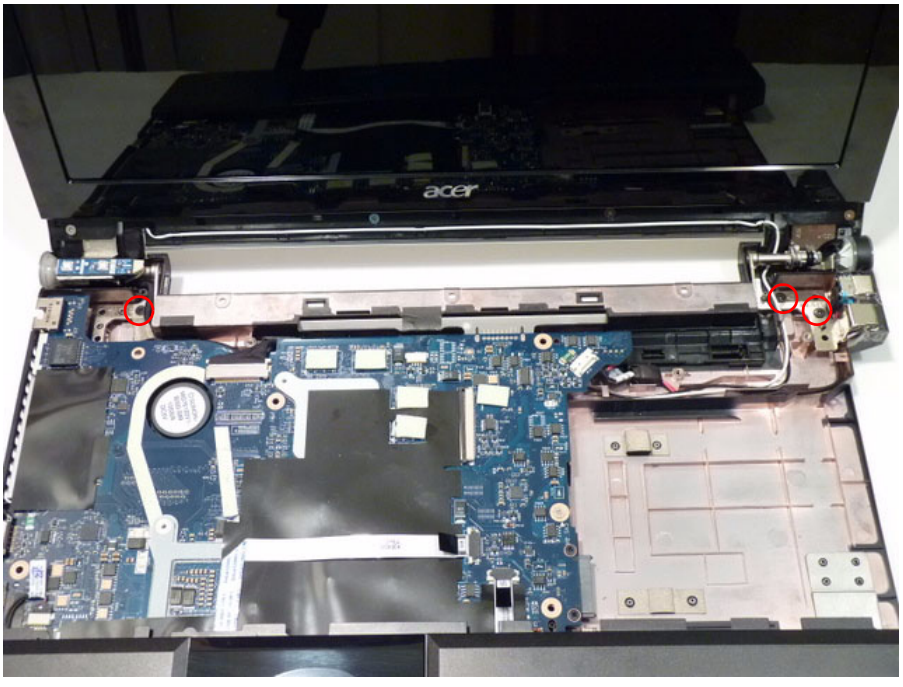


Replacing the LCD Module

1. Place the LCD Module onto the Upper Cover.

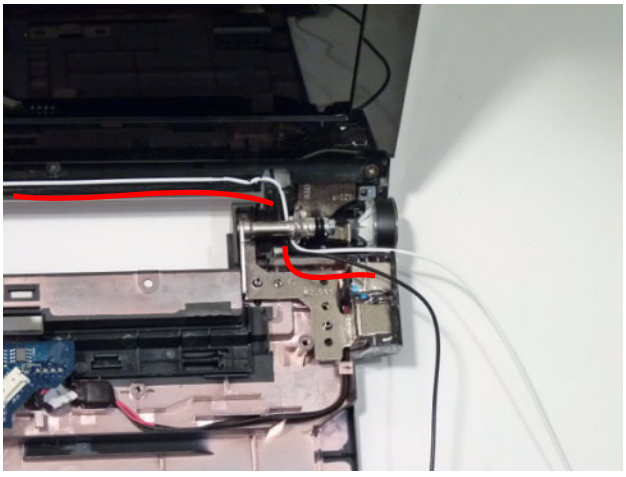


2. Secure the three (3) securing screws to the chassis.

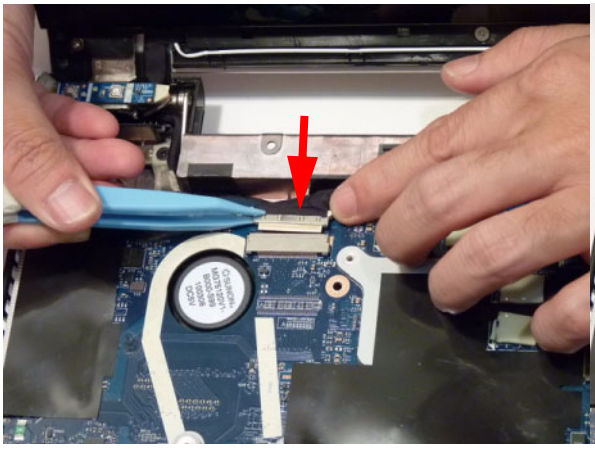


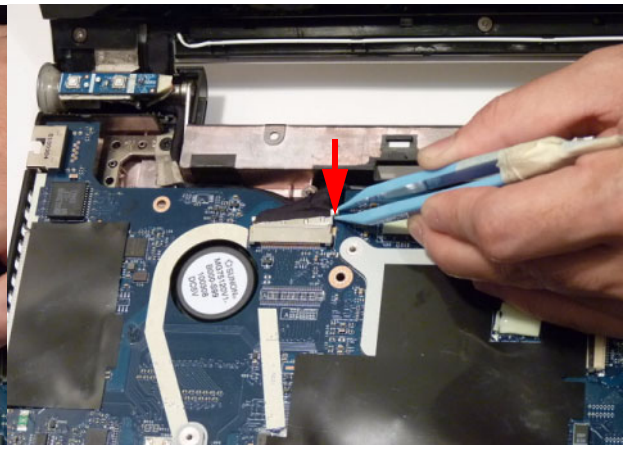
Step	Size	Quantity	Screw Type
LCD Module Assembly	M2.5*5	3	

3. Place the antenna cables under the hinge and into the cable channel.

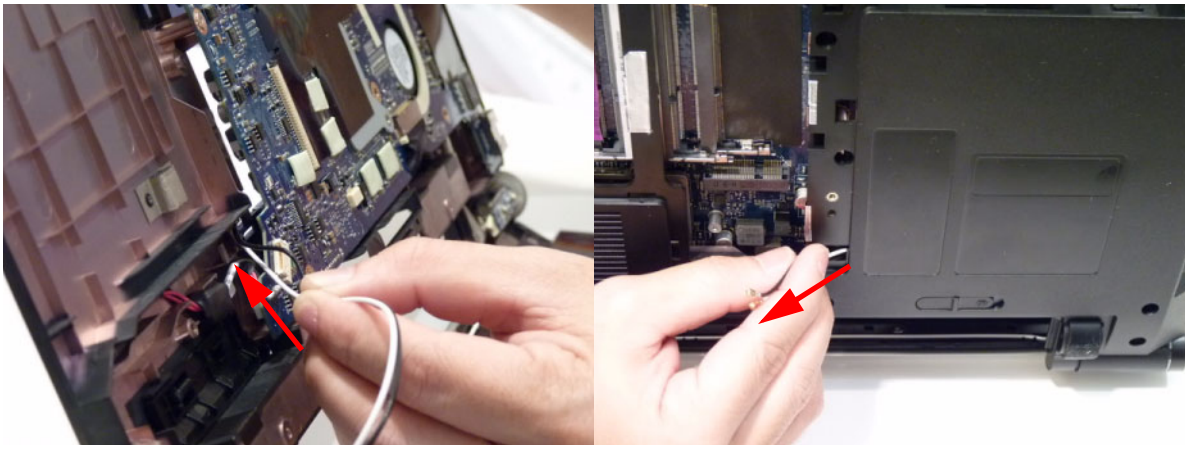


4. Connect the LVDS cable to the Mainboard and place the cable into the cable channel.

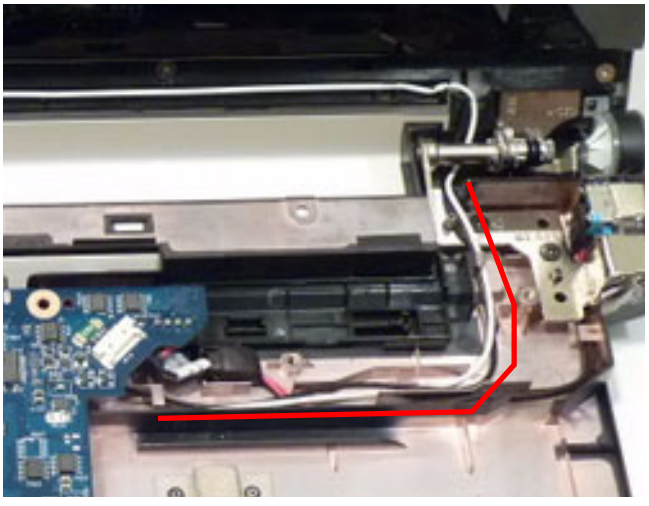




5. Stand the computer on the LCD Panel and pull the Antenna cables completely through the chassis.

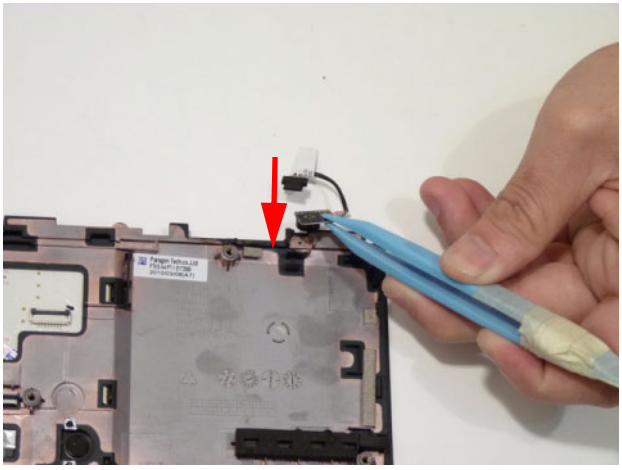


6. Place the Antenna Cables into the cable channel as shown.



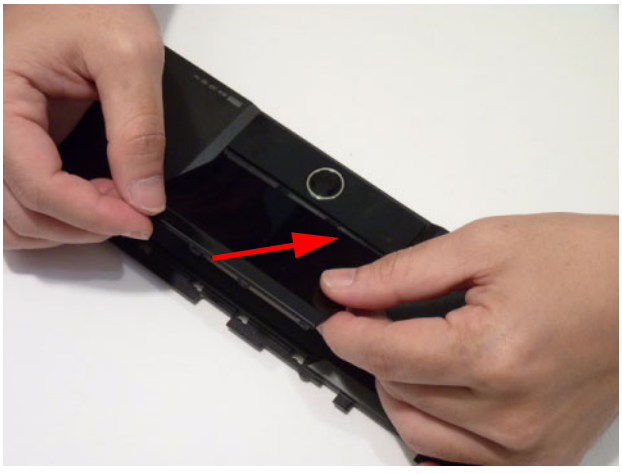
Replacing the Microphone Cable

1. Using a plastic tweezers, place the microphone board onto the upper cover as shown.

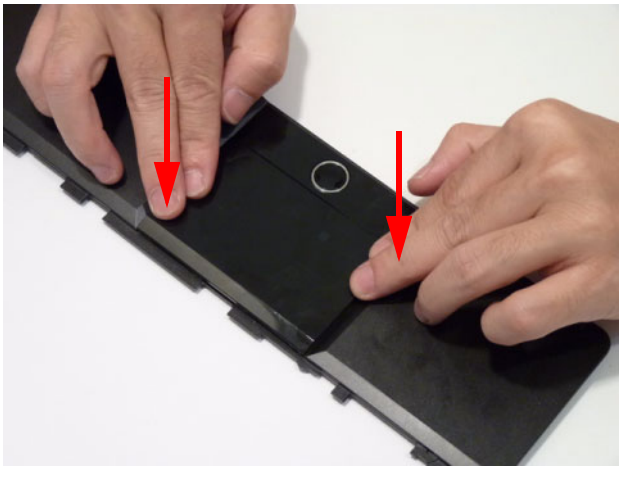


Replacing the Touchpad

1. Place the touchpad into the palmrest module as shown.

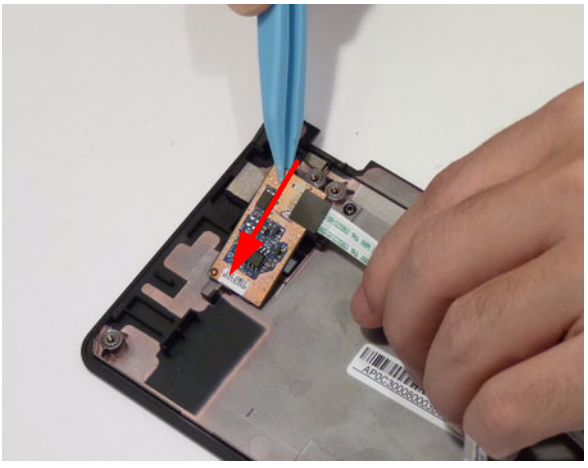


2. Making sure all the clasps are lined up, snap the touchpad onto the module.



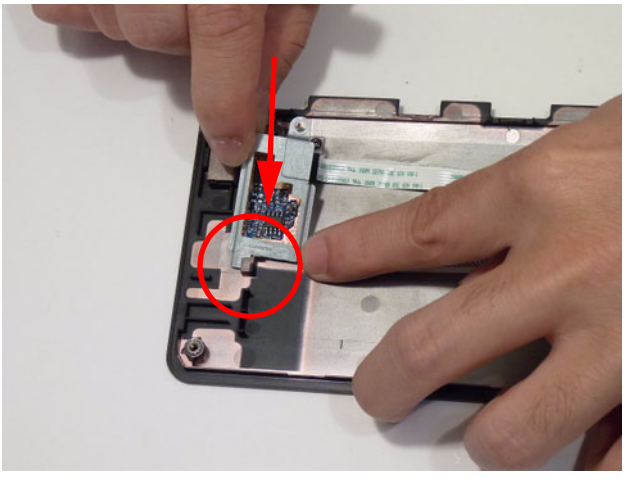
Replacing the Finger Print Board

1. Place the finger print board in the module.



CAUTION: Do not handle the finger print board with excessive force or else damage may occur.

2. Place the finger print bracket on the finger print board.



NOTE: Make sure that the bracket goes underneath the bracket guide.

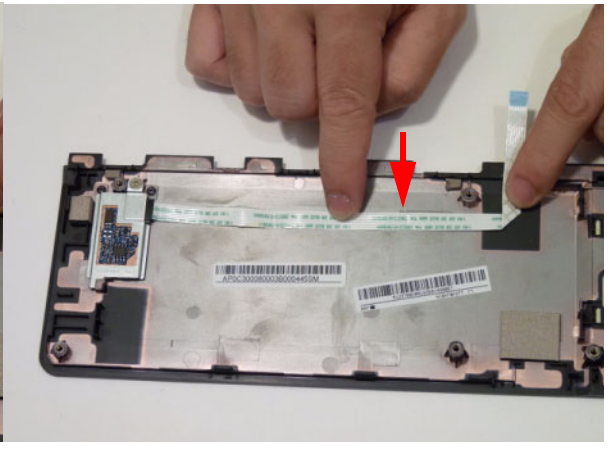
3. Replace the one (1) screw.



Step	Screw	Quantity	Screw Type
Finger Print Module Assembly	M2.5*3Ni	1	

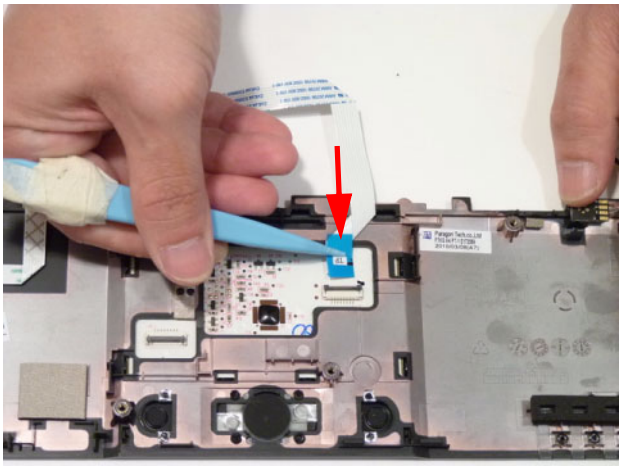
4. Adhere the FFC onto the module as shown.



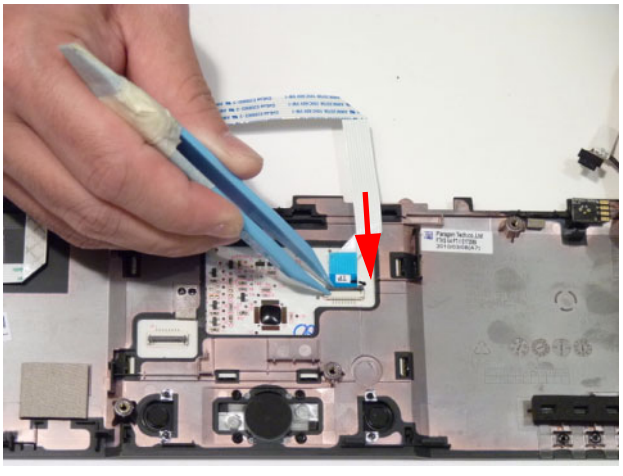


Replacing the Palmrest Module

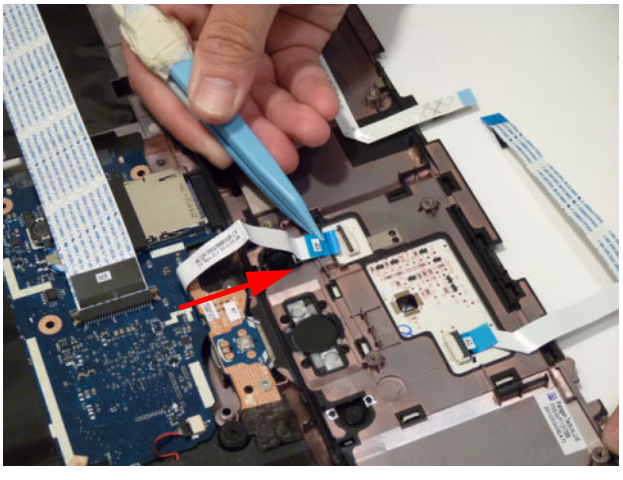
1. Connect the FFC cable as shown.



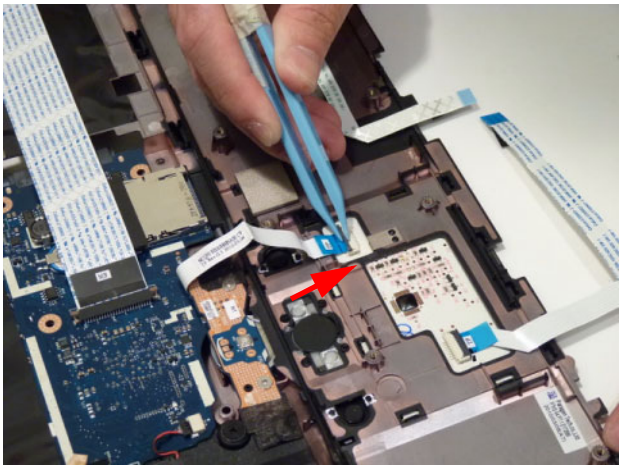
2. Secure the locking latch for the touchpad cable.



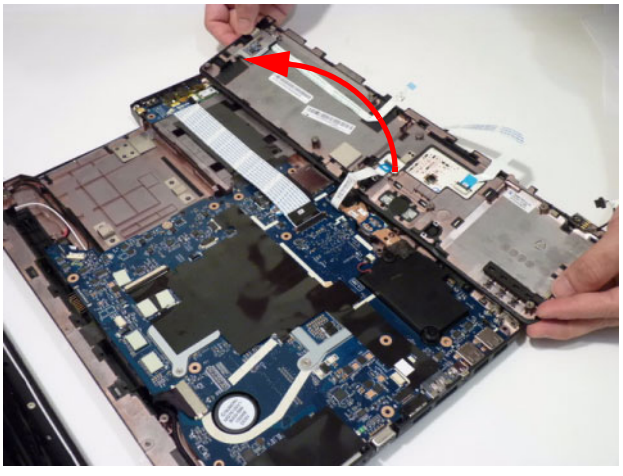
3. Connect the FFC cable as shown.



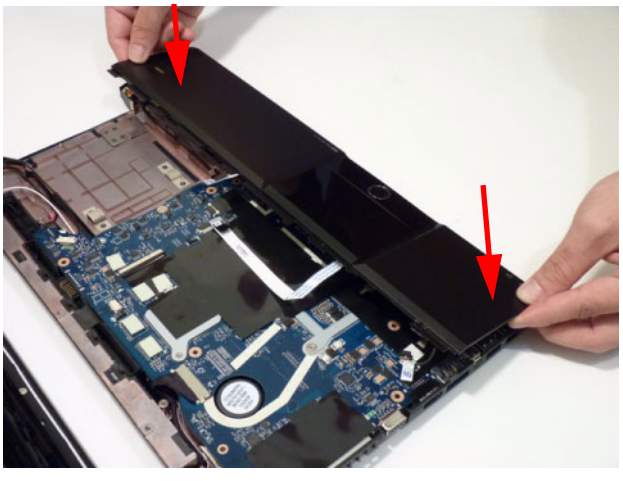
4. Secure the locking latch for the touchpad button cable.



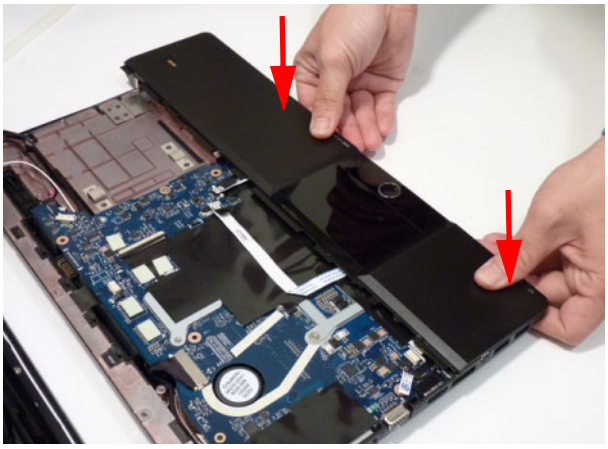
5. Turn the palmrest module over carefully without pulling out the cable.



6. Align the palmrest module with the chassis

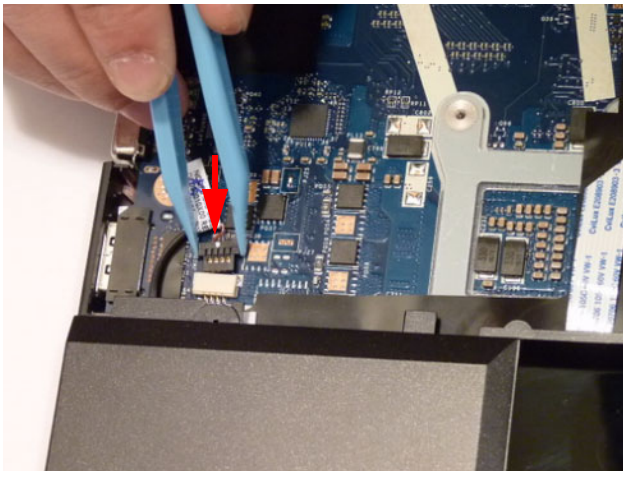


7. Apply pressure to secure the palmrest module to the chassis.

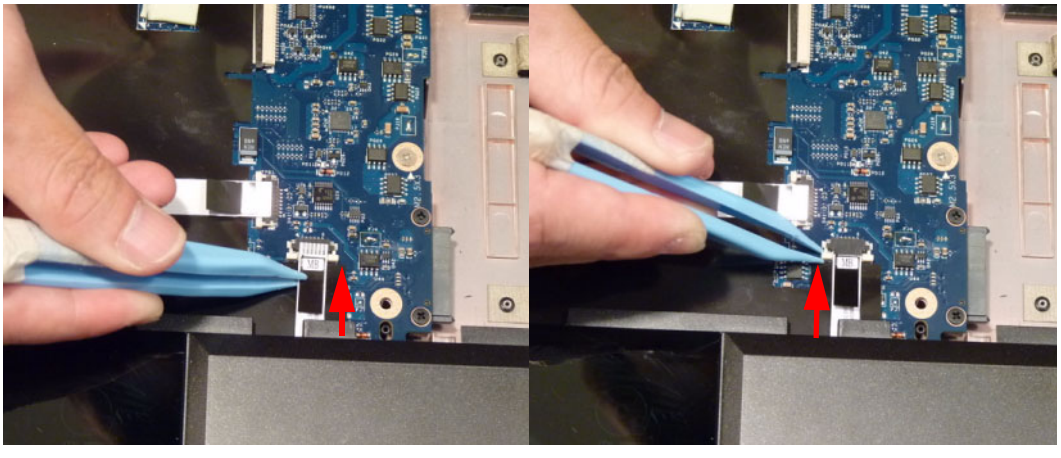


Replacing the Mainboard to Touchpad Cable

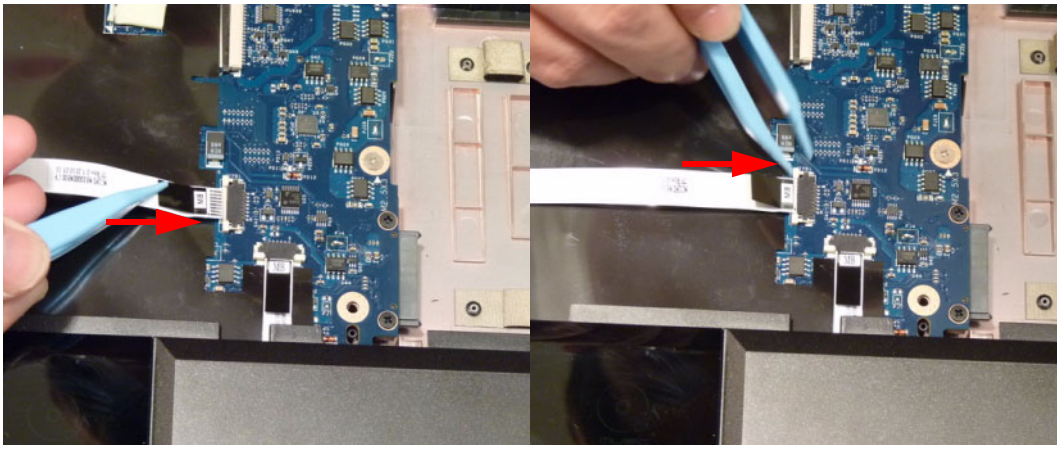
1. Connect the microphone cable to the mainboard.



2. Connect and lock the fingerprint cable to the mainboard.

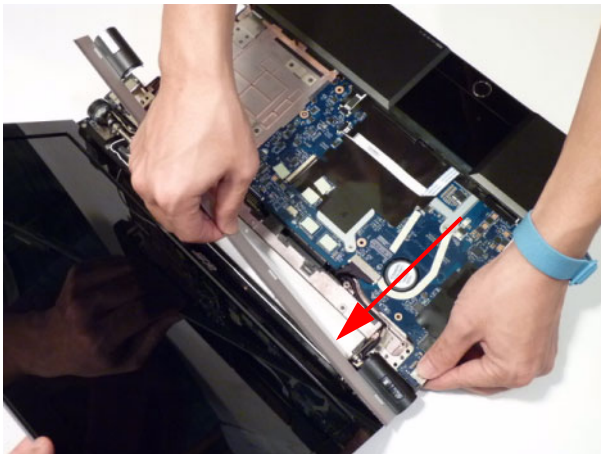


3. Connect and lock the touchpad cable to the mainboard.

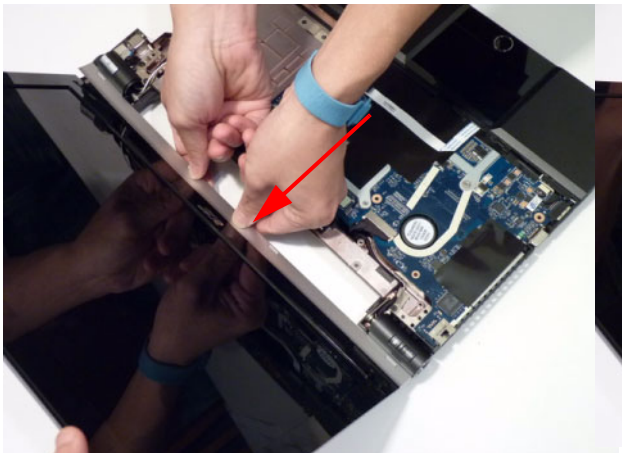


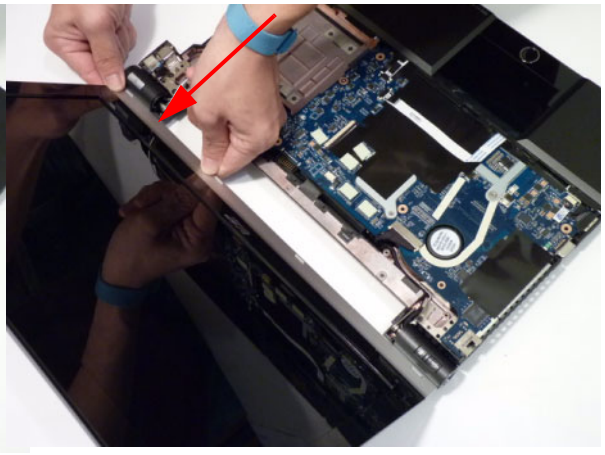
Replacing the LCD Hinge Bezel

1. Align the hinge bezel to the bottom left of the LCD module.



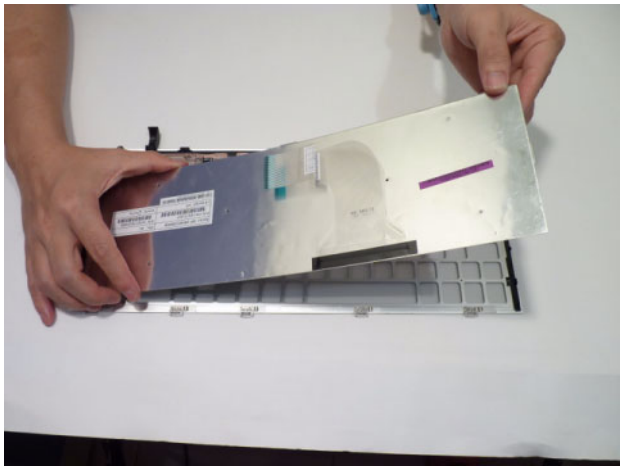
2. Apply pressure the hinge bezel from LCD module. Work from side to side until all latches are locked.



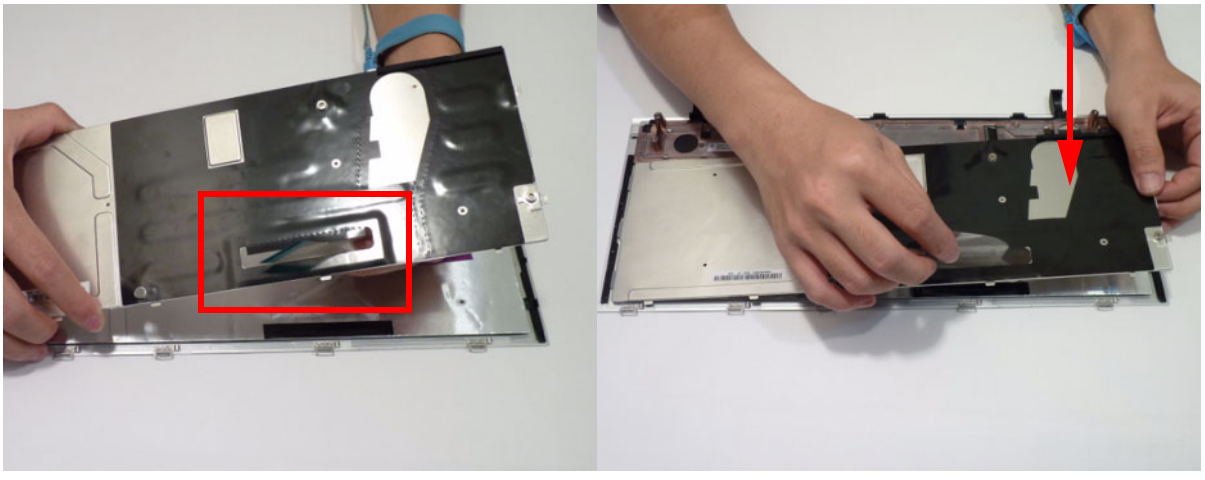


Replacing the Keyboard

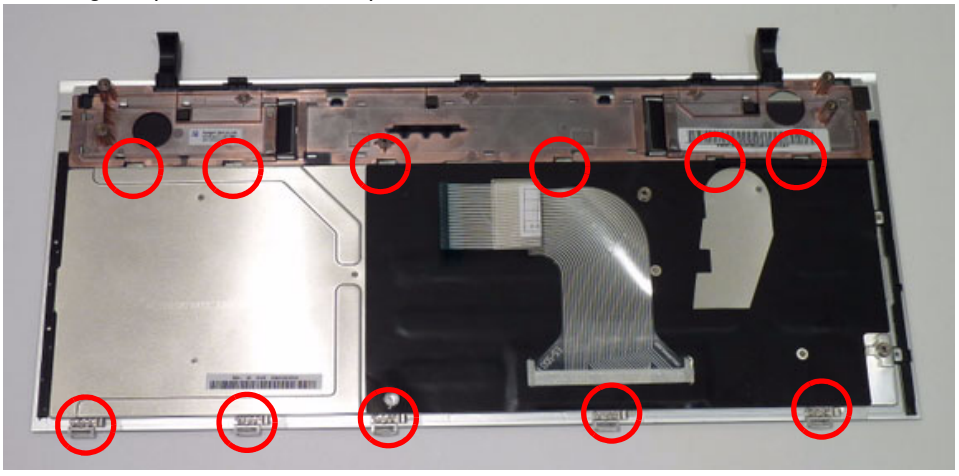
1. Place the keyboard onto the faceplate.

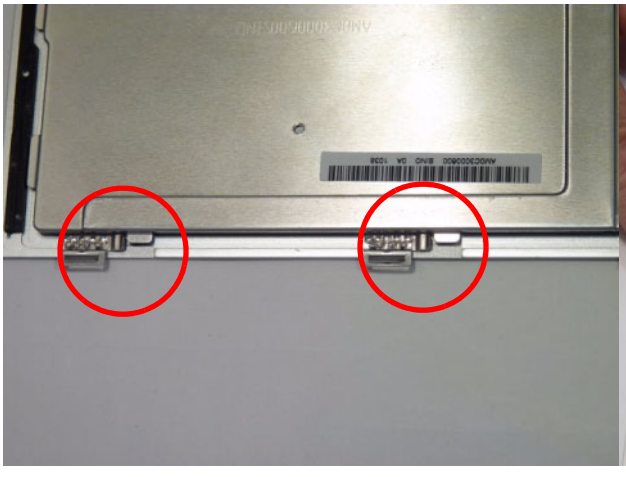


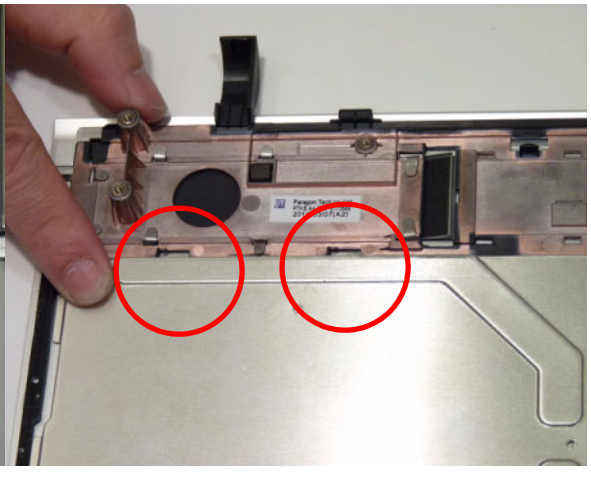
2. Insert the cable through the slot in the backing plate and lower the backing plate so that it clears the cable.



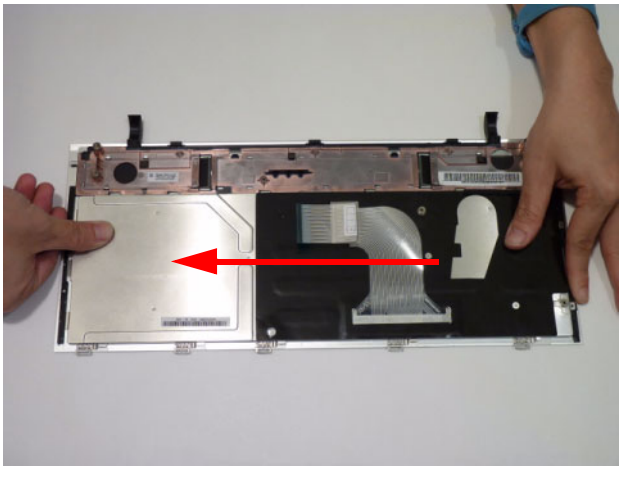
3. Locate the guide pins and line them up as shown.



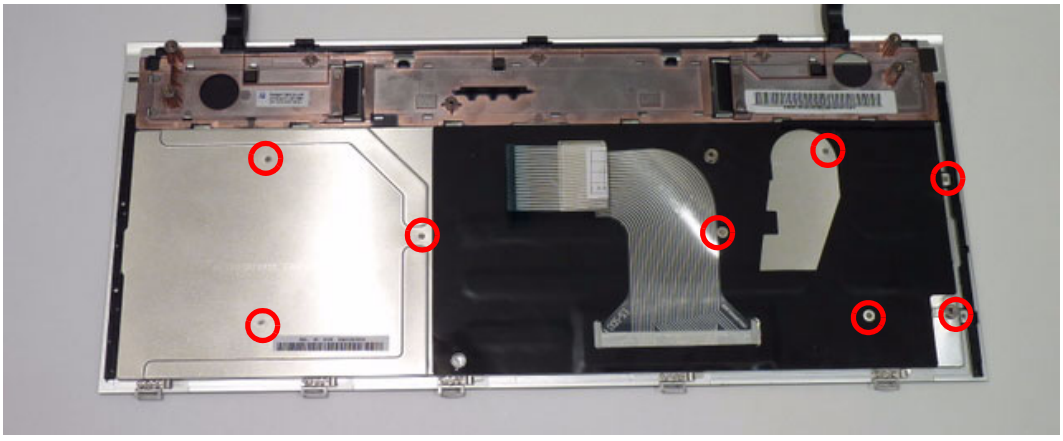




4. Slide the plate from right to left.

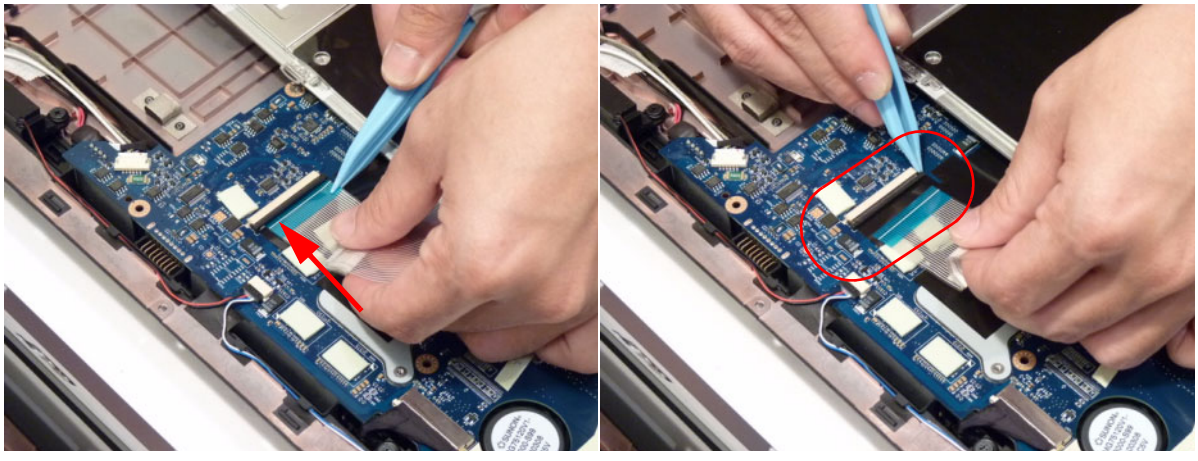


1. Replace eight (8) screws in the keyboard module.

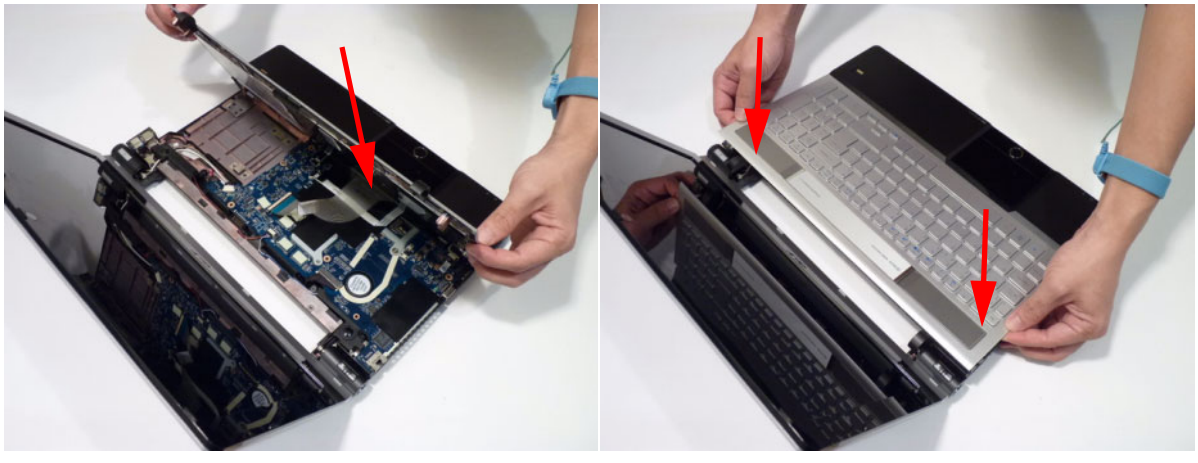


Step	Screw	Quantity	Screw Type
Keyboard Module Assembly	M1.6*2.5	8	

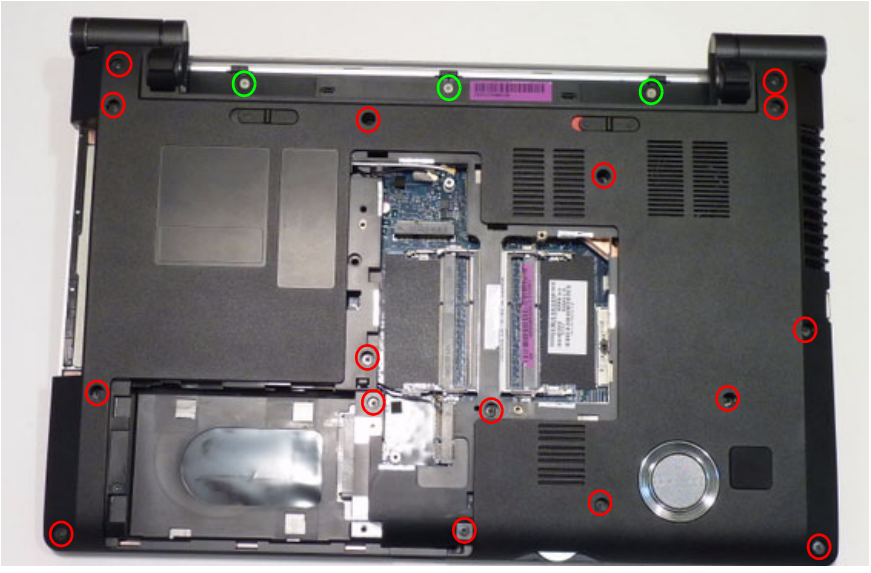
2. Connect and lock the keyboard FFC.



3. Replace the keyboard by first lining up the bottom edge, then lower the keyboard into place.



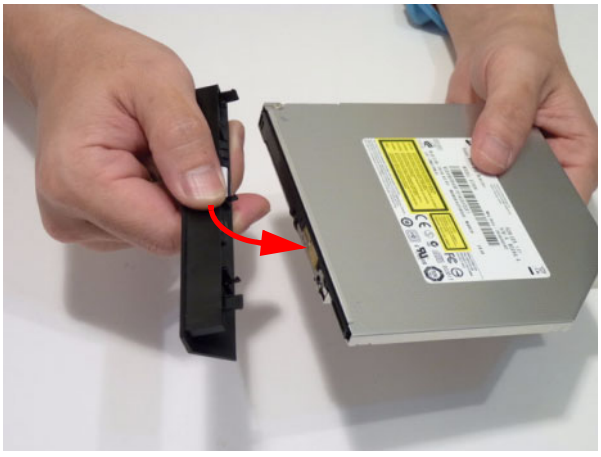
4. Secure the nineteen (19) screws in the lower cover.



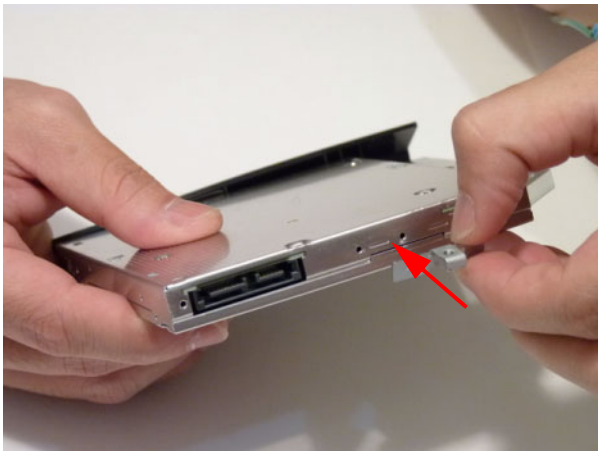
Step	Screw	Quantity	Screw Type
Upper Cover Assembly	M2.45*8 (red callout)	16	
	M2.5*3 Ni (green callout)	3	

Replacing the ODD Module

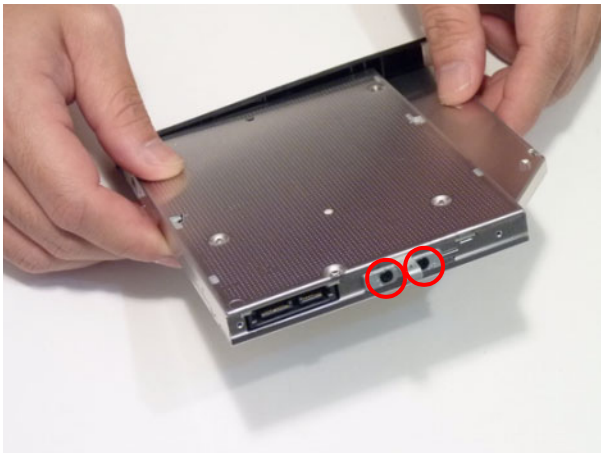
1. Replace the ODD bezel.



2. Replace the ODD bracket.

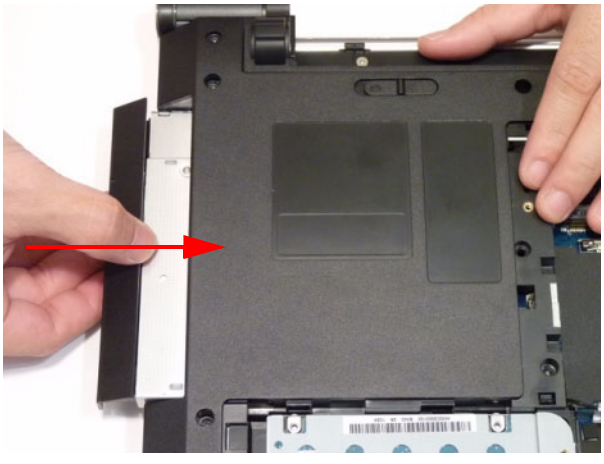


3. Replace the two (2) screws of the ODD bracket.

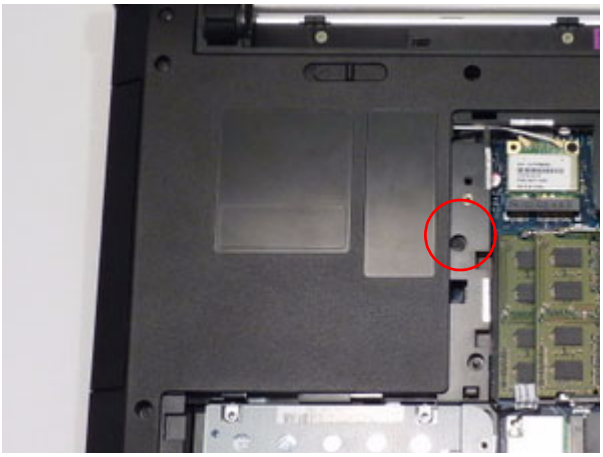


Step	Screw	Quantity	Screw Type
ODD Bracket Assembly	M2*3	2	

4. Push the ODD completely into the bay until flush with the lower cover.



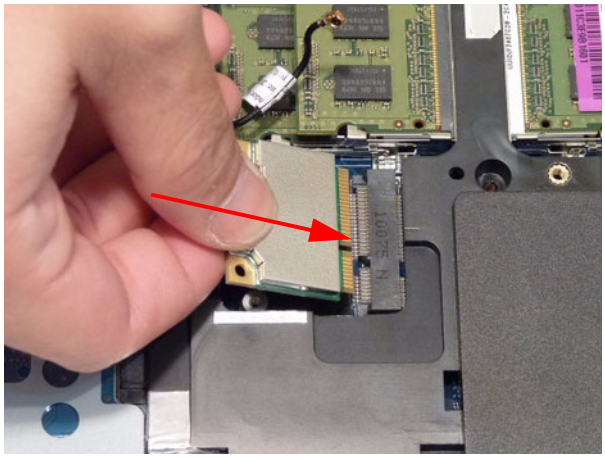
5. Replace one (1) screw to secure the ODD module.



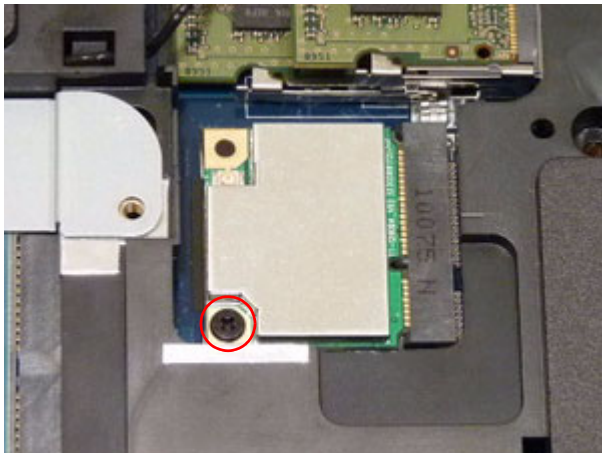
Step	Screw	Quantity	Screw Type
ODD Module Assembly	M2.45*8	1	

Replacing the TV Tuner Module

1. Insert the TV Tuner module in the connector.

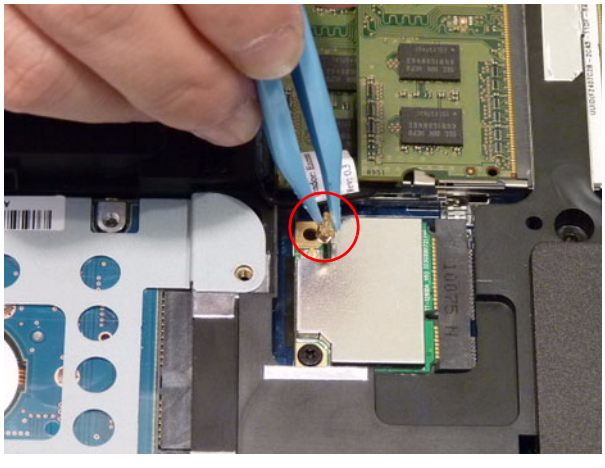


2. Replace one (1) screw.



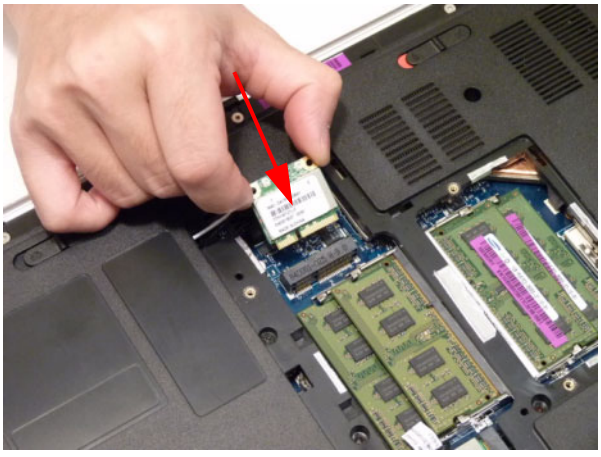
Step	Screw	Quantity	Screw Type
TV Tuner Module Assembly	M2*3	1	

3. Connect the TV tuner antenna cable as shown.

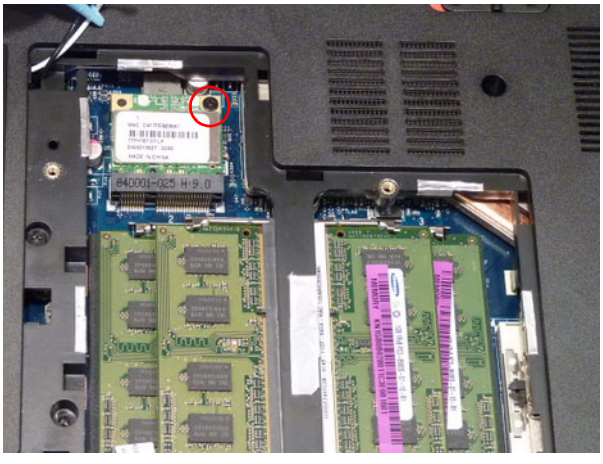


Replacing the Wireless LAN Module

1. Insert the WLAN module into the connector.

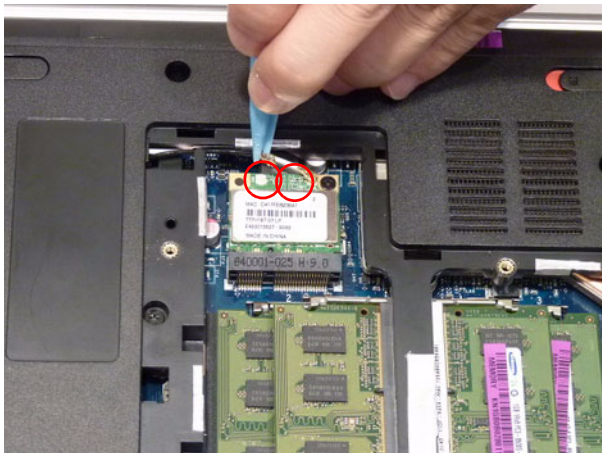


2. Replace the one (1) screw.



Step	Screw	Quantity	Screw Type
WLAN Module Assembly	M2.5*3Ni	1	

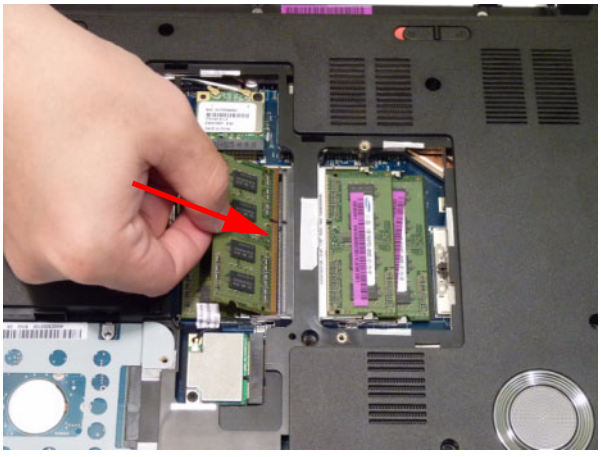
3. Connect the WLAN antenna cables.



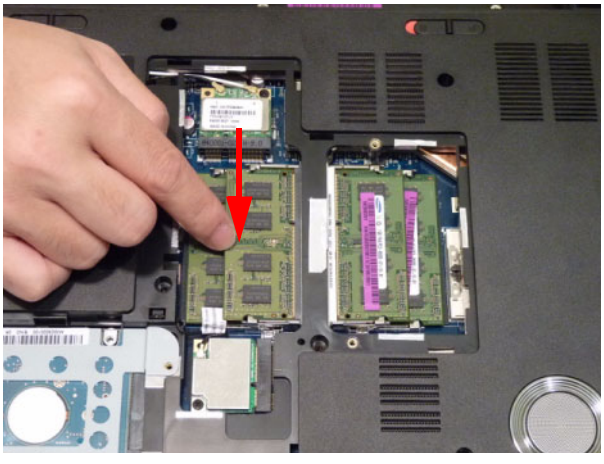
IMPORTANT: The Main (black) connector is on the left and Auxiliary (white) connector is on the right as shown in the picture above.

Replacing the DIMM Module

1. Slide the DIMM module into the connector.



2. Press down until the locking springs click into place.



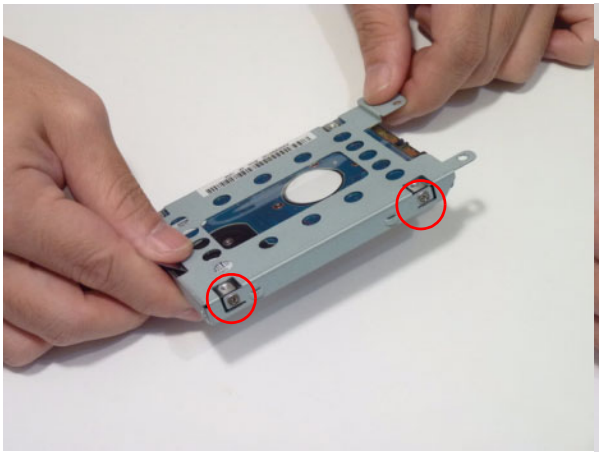
3. Repeat for additional modules if present.

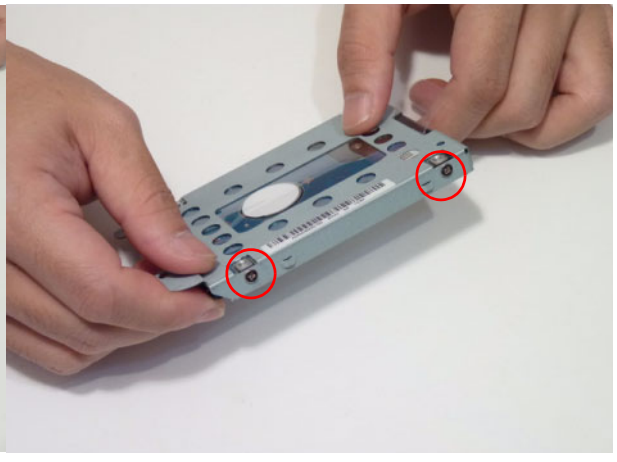
Replacing the Hard Disk Drive

1. Place the HDD bracket onto the HDD.



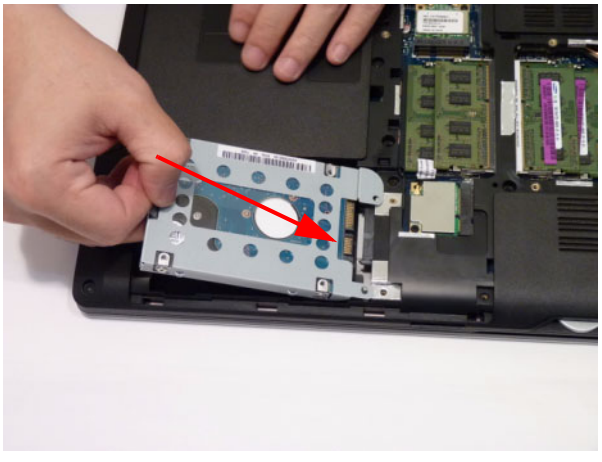
2. Replace the four (4) screws on the HDD bracket.



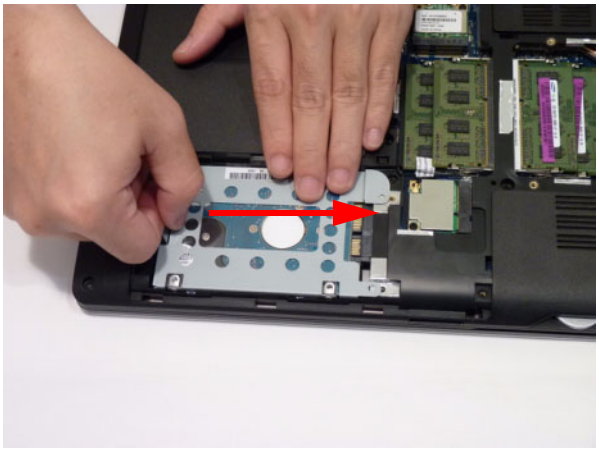


Step	Screw	Quantity	Screw Type
HDD Bracket Assembly	M3*3Ni	4	

3. Insert the HDD into the bay.

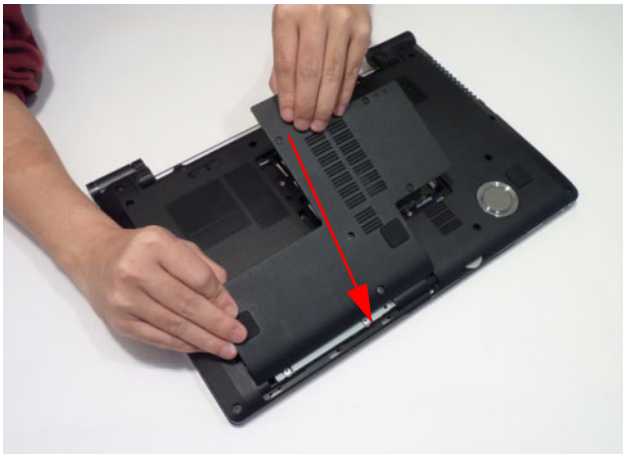


4. Grasp the tab and slide the HDD firmly into the docking connector.

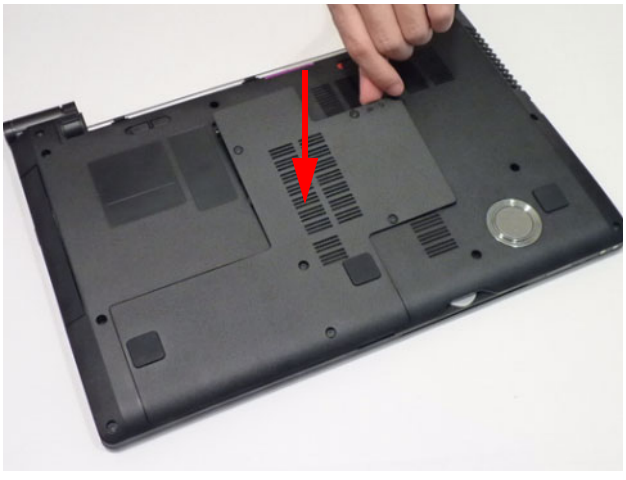


Replacing the Base Door

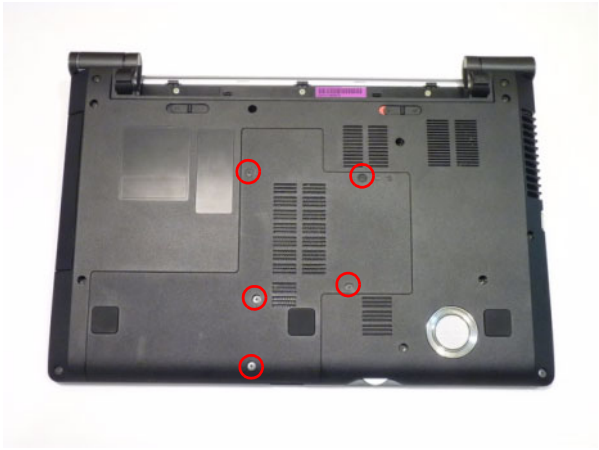
1. Insert the base door edge flanges into the slots.



2. Lower the door into place.



3. Replace the five (5) screws.



Step	Size	Quantity	Screw Type
Base Door Assembly	M2.5*8	5	

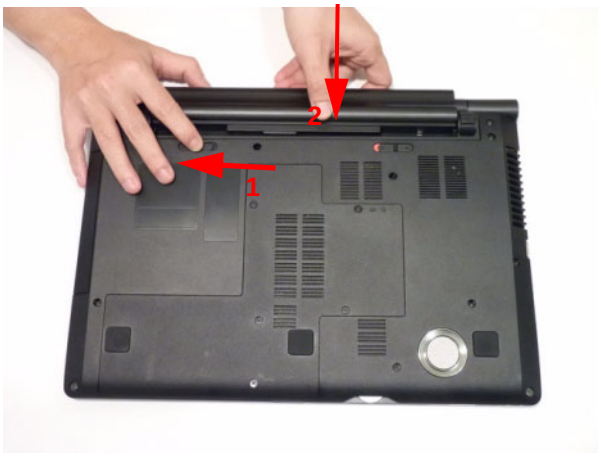
Replacing the Dummy Card

1. Insert the Dummy card in until it clicks into place.



Replacing the Battery

1. Hold the release latch in the release position (1) and slide the battery into place (2).



2. Close the locking latch.

