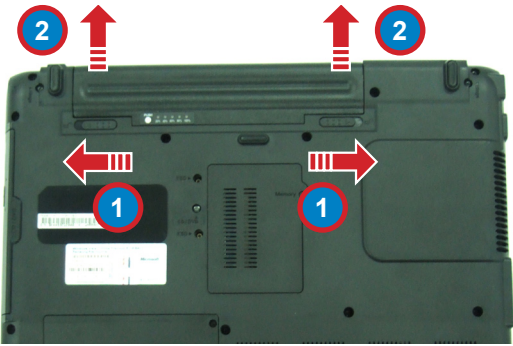

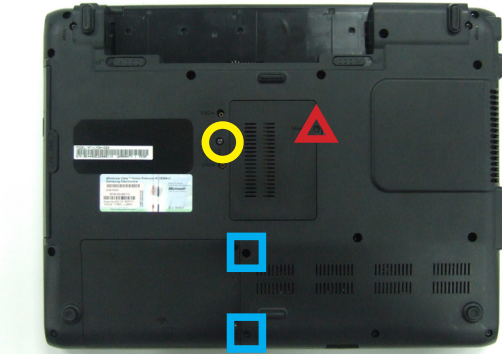



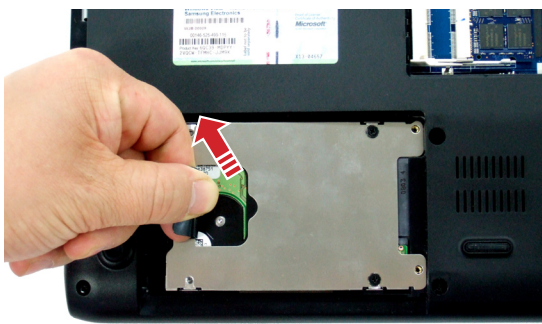
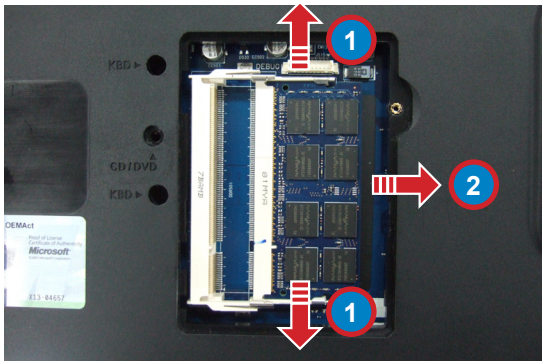
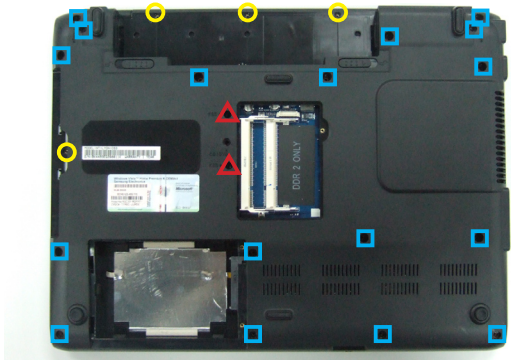
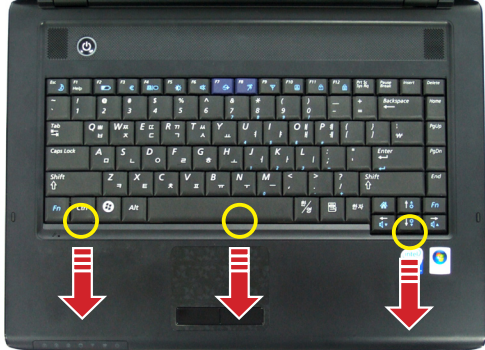
3. Disassembly and Reassembly

3-1. Disassembly and Reassembly R510


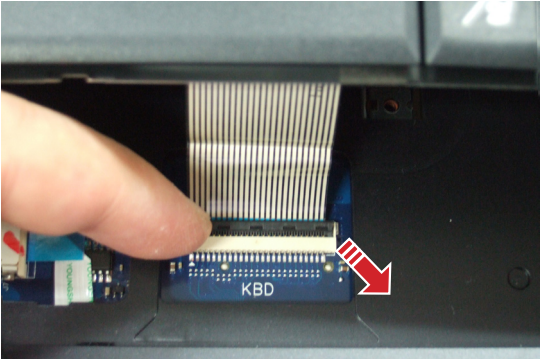
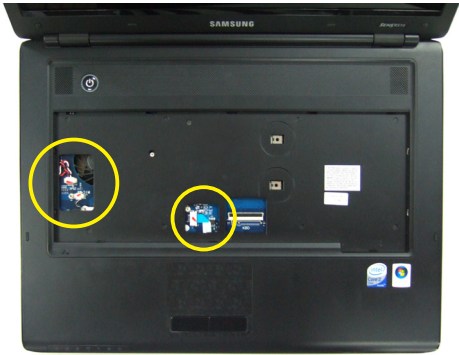
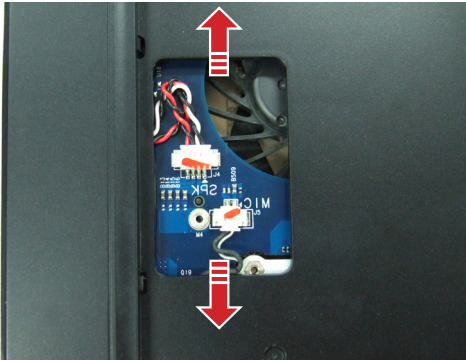
[Caution] Attention to red sentence.

Part	Picture	Description
Main System		1. Before disassembling, the AC adaptor and Battery must be separated. 2. AS mark No.1/2 put KNOB-Battery to end of each side, then pull the battery upward like outward
		3. After removing the Battery
		4. ODD and DOOR-HDD, DOOR-Memory Screw Remove. M2 X L4, Black (4EA) - Yellow (○): ODD Screw - Skyblue (□): HDD Door Screw - Red (△): Minicard Door Screw
		5. HDD DOOR Remove, MEMORY DOOR Remove ODD Remove

3. Disassembly and Reassembly

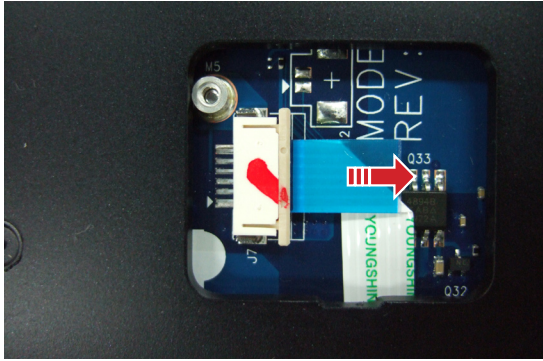
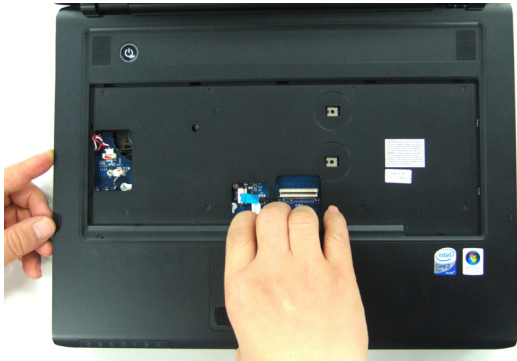
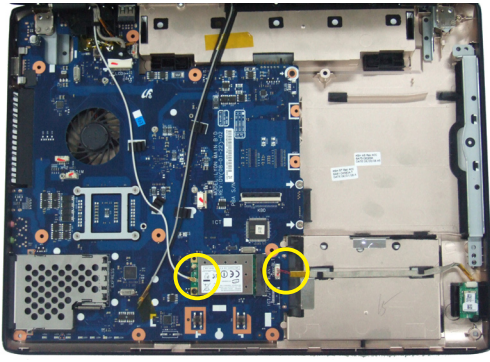
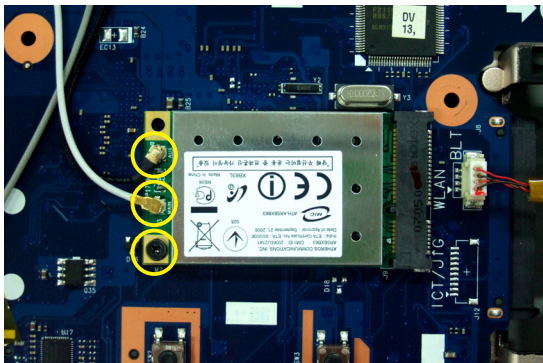
Part	Picture	Description
Main System		6. Separate HDD by pulling in the arrow direction. * Cautions Avoid lifting HDD excessively, because Connector can be damaged.
		7. ODD Remove
		8. Bottom Screw Remove - Yellow(○): M2 X L4, Black (4EA) - Skyblue(□): M2.6 X L8, Black (17EA) - Red(△): M2 X L6, (2EA)
		9. Push two keyboard hooks fixing a keyboard in the arrow direction * Caution When using a tool, be careful not to scratch the surface of Top and not to be hurt

3. Disassembly and Reassembly

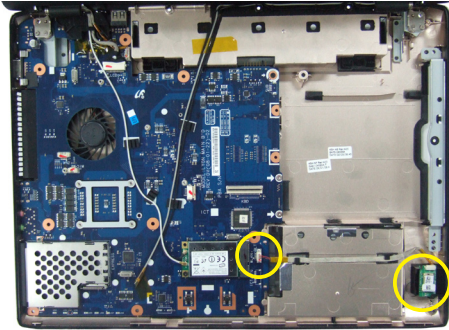
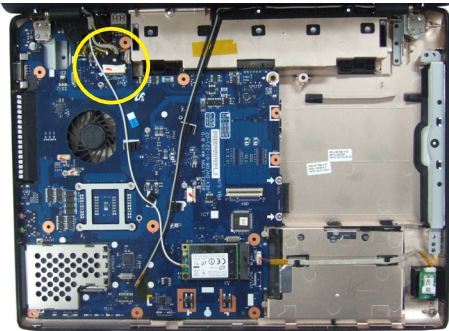
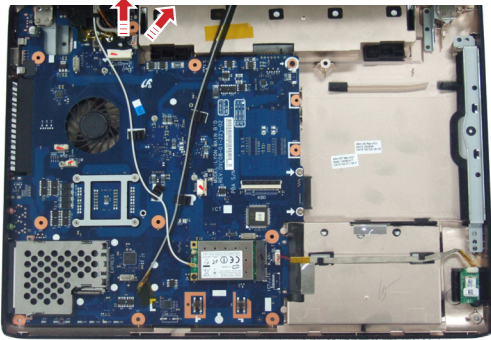
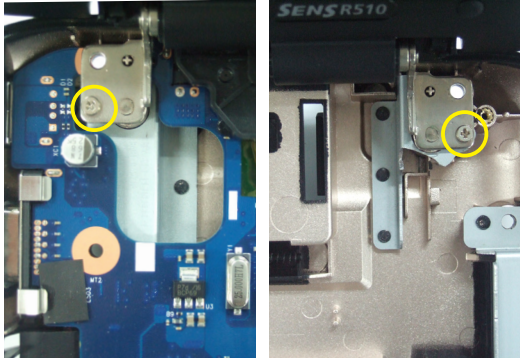
Part	Picture	Description
Main System		10. When separating the keyboard hook, use a tweeze, wood cutter or “-” screwdriver. * Caution Keyboard is connected to FPC, thus lift a little bit until FPC appear.
		11. Lift up the cover of connector connected FPC of keyboard, and then pull out FPC, separate the keyboard. * Caution Avoid pulling the keyboard excessively at this time as the keyboard connector can become detached.
		12. Separate 3 CABLE from TOP ASSY (TOUCH_PAD / SPEAKER / MIC Cable)
		13. Separate two cables for disassembling Top. (Audio / MIC.)

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3. Disassembly and Reassembly


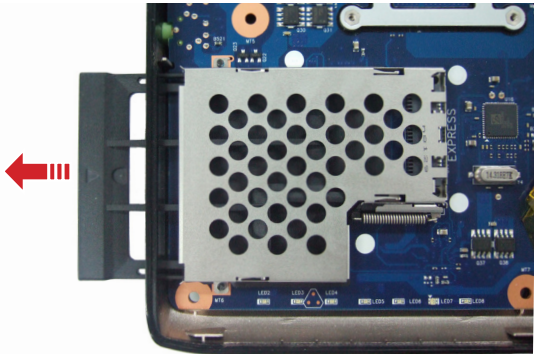
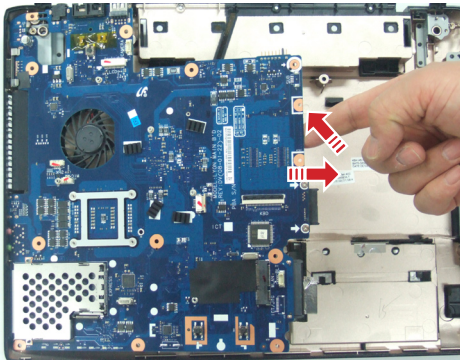
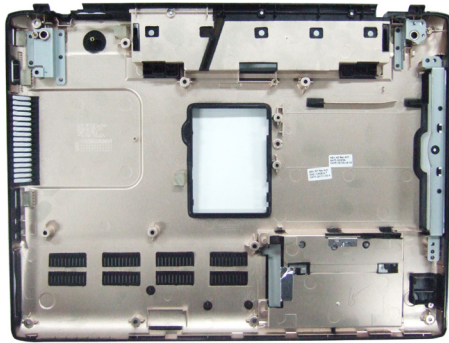
Part	Picture	Description
Main System		14. 화살표 방향으로 FPC Connector를 당겨서 TouchPad FPC를 분리한다.
		15. And Then Remove TOP ASSY by lift up
		16. Wireless LAN Card와 Bluetooth를 Main Board에서 분리한다.
		17. Remove cables connected to Wireless LAN Card, remove screw and LAN Card.

3. Disassembly and Reassembly

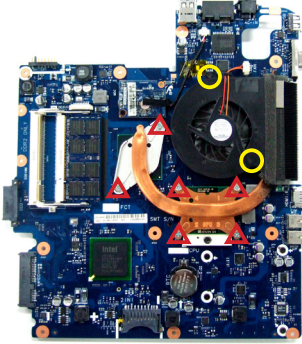
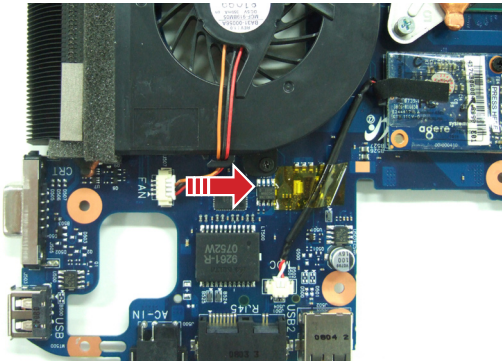
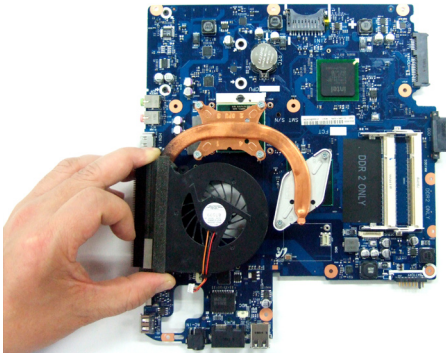
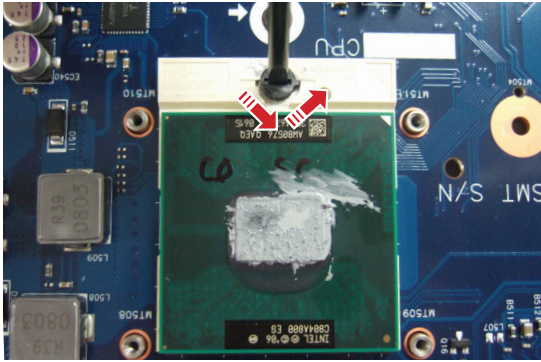
Part	Picture	Description
Main System		18. 화살표 방향으로 Bluetooth Connector을 당겨서 Bluetooth Cable을 분리하고, Screw를 풀어서 Bluetooth Module을 제거한다. M2 X L4, Black (1EA)
		19. LCD Ass'y를 Main System에서 분리시키기 위해서 그림에 표시된 2부분의 Cable을 분리한다.
		20. 화살표 방향으로 당겨서 Camera Cable과 LCD Cable을 분리한다.
		21. To separate LCD ASSY Remove 1 ,2 Screw

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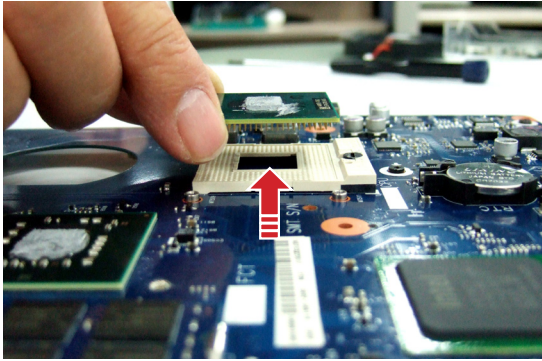


3. Disassembly and Reassembly

Part	Picture	Description
Main System		22. ASSY LCD and Bottom sys.
		23. Remove Dummy Card in the direction of arrow.
		24. Lift up Main board following direction.
		25. BOTTOM

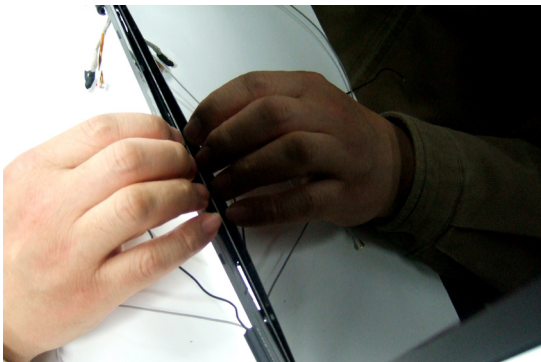

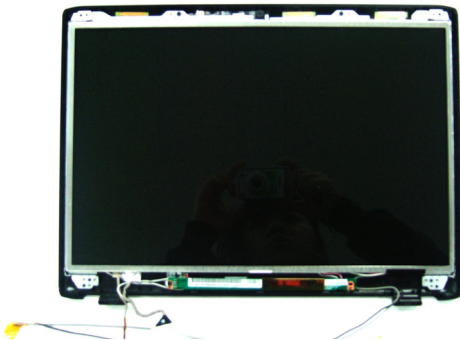
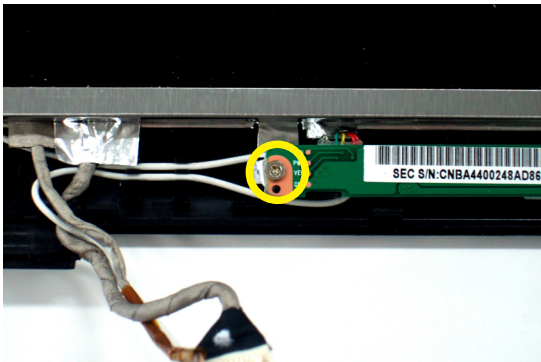
3. Disassembly and Reassembly

Part	Picture	Description
Main System		26. Remove screws for separating FAN and Heat sink. - Yellow (●): Screw (6EA) - Red (▲): M2 X L4, Black (2EA)
		27. Remove FAN CONNECTOR
		28. separating FAN and Heat sink.
		29. Turn the screwdriver in the direction of anti-clockwise and open CPU socket.


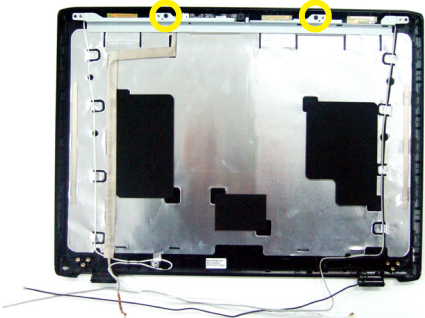
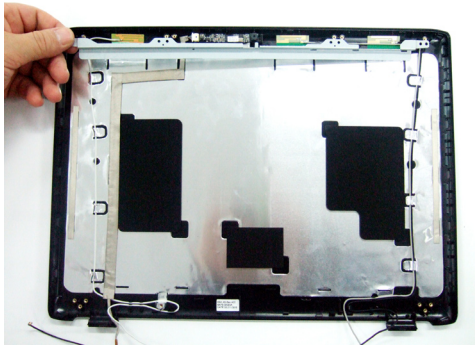
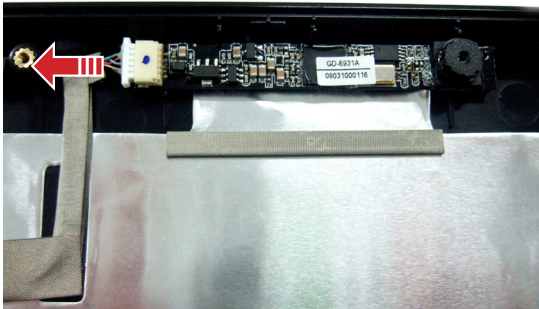
3. Disassembly and Reassembly

Part	Picture	Description
		30. Hold up CPU.
		31. Remove rubber-LCD-Cap & Screw on the LCD front. * Caution When using a tool, be careful not to scratch the surface of Top and not to be hurt.
		32. 그림과 같이 6개 부분의 Screw를 제거한다. M2 X L6 (6EA)


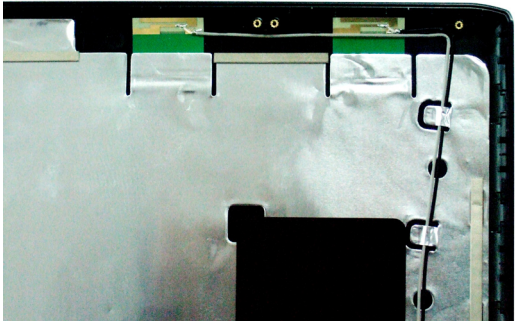
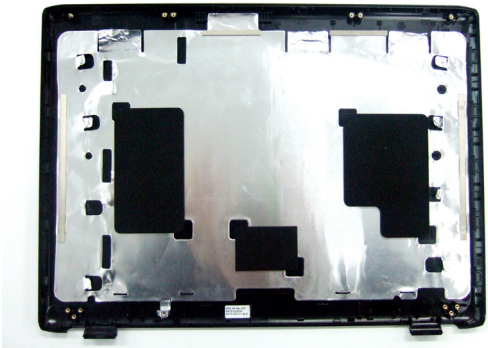

3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y		33. Separate LCD Front by twisting inside to outside like picture. * Caution When removing LCD Front, avoid twisting too strongly. If not, it can be bent.
		34. Remove 4 screw in the Hinge
		35. Hinge L, R을 제거한 후의 모습
		36. LCD Panel Ass'y를 분해하기 위해서 INVERTER BD를 고정한 Screw를 제거한다. M2 X L5 (1EA)

3. Disassembly and Reassembly


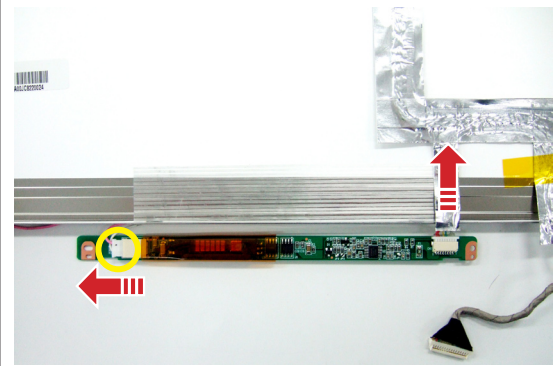
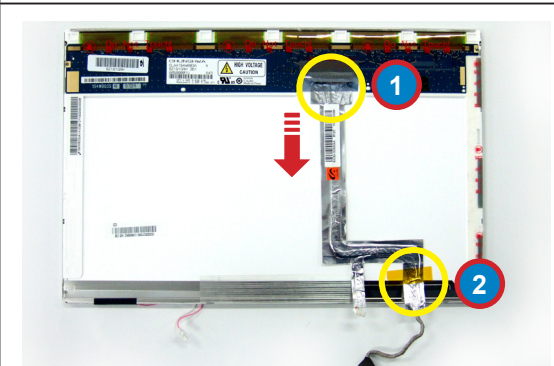

Part	Picture	Description
LCD Ass'y		37. Separate Hinge and LCD-Panel like picture
	 	38. Screw 2개를 제거하고, Bracket를 제거한다.
		39. 화살표 방향으로 CAMERA MODULE과 CABLE을 분리한다.

3. Disassembly and Reassembly


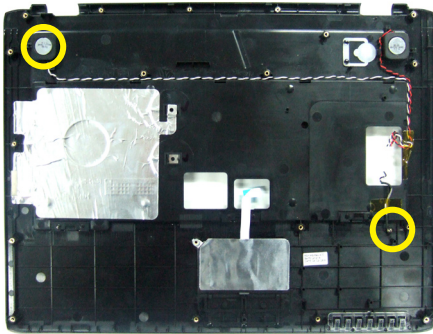
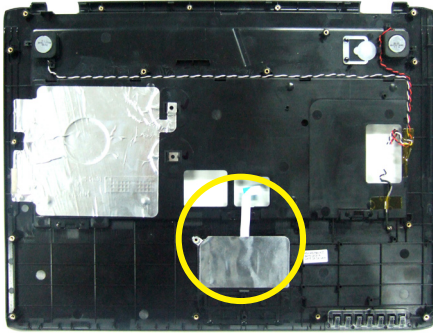
Part	Picture	Description
LCD Ass'y		40. 그림과 같이 Wireless LAN Antenna Cable을 제거한다.
		
		41. LCD Panel Ass 'Y와 Cable을 모두 제거한 후의 LCD-Back의 모습
		42. LCD Panel Ass 'Y의 모습

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3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y		43. 화살표 표시 6개의 Screw를 제거하고, Bracket -LCD _L, R을 분리한다. M2 * L5 (6 EA)
		44. 화살표 방향으로 당겨 LCD CABLE과 INVERTER BD를 분리한다.
		45. 1번, 2번 원안에 있는 Tape를 제거하고, 화살표 방향으로 당겨 LCD Cable을 분리한다
		46. LCD CABLE과 INVERTER cable을 제거한 LCD Panel의 모습

3. Disassembly and Reassembly

Part	Picture	Description
LCD Ass'y		LCD panel
		47. Remove Speaker & Mic.
		48. Taking care of removing Touchpad FPC, remove Shield of Touchpad. After that, remove Touchpad FPC. * Caution Touchpad module is fixed using by tape on Top.