

LifeBook P1610 System Board and Heat Sink Replacement

ESD Precautions are required when working on this LifeBook computer.

Make sure the LifeBook is turned off before beginning this procedure.



1. Turn the LifeBook over and remove the battery



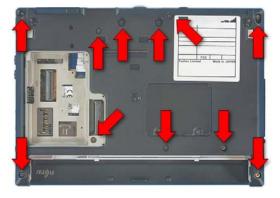
2. Extract these 3 screws from the Hard Disk Drive cover and lift it off.



3. Release the cable by flipping the latch up.



4. Lift the Drive out.



5. Extract 11 screws from the lower case.



7. Open the LifeBook and lay it flat.



9. Lift the top edge of the keyboard up and turn it over



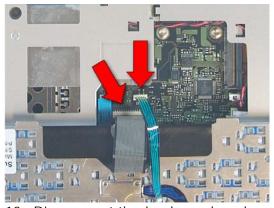
11. Tilt the Display up and rotate it ¼ turn.



6. Extract 2 screws from the rear of the LifeBook.



8. Use a plastic pry tool to remove the keyboard upper trim.



10. Disconnect the keyboard and ClickPoint cables from the system board by pulling them gently.



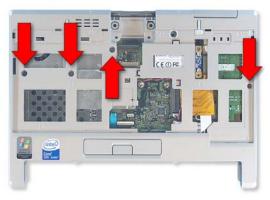
12. Slide out the lower hinge cover.



13. Turn the Display back and lay it down.



15. Extract 2 screws from the Display hinge.



17. Extract 4 screws from the upper case and open the external VGA connector cover.



19. Lift off the upper case.



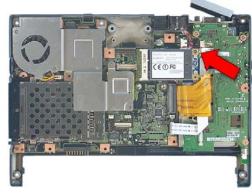
14. Disconnect 2 Display cables from the system board and the 2 antenna cables from the WLAN Card.



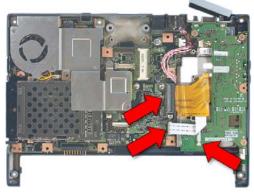
16. Lift the Display off the lower assembly.



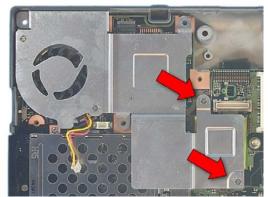
18. Disconnect the ClickPoint button cable and the speaker cable from the system board.



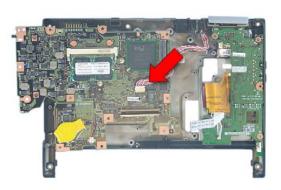
20. Extract 1 screw from the WLAN card and lift it out.



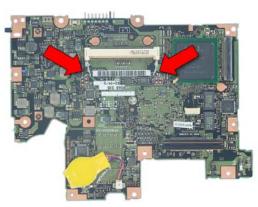
21. Disconnect the IO Board cable, the Bluetooth cable, and the DC power cable from the system board.



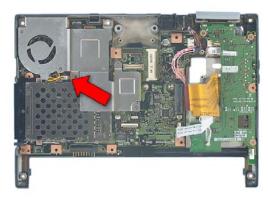
23. Extract 2 screws from the heat sink and lift it out.



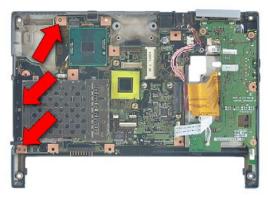
25. Disconnect the LAN cable from the system board.



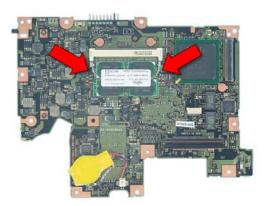
27. Press the RAM into its slot on the new system board. 2790



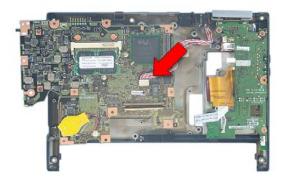
22. Disconnect the CPU fan cable from the system board.



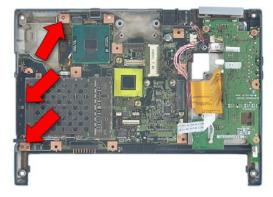
24. Extract 3 screws from the system board, lift it up and turn it over.



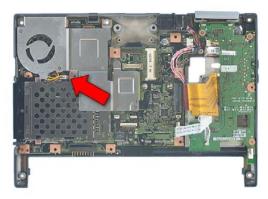
26. Press out on the locking clips to release the RAM and lift it off the system board.



28. Set the system board onto the lower case and connect the LAN cable.



29. Turn the system board over, insert it into the lower case and secure it with 3 screws.



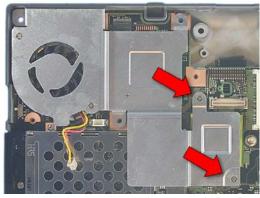
31. Connect the fan's cable to the system board.



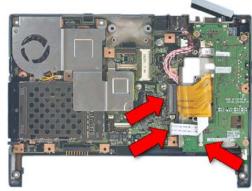
33. Insert the WLAN card and secure it with 1 screw.



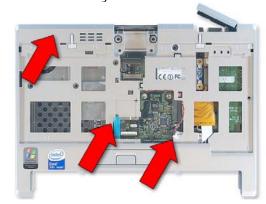
35. Close the external VGA connector cover and secure the upper case with 4 screws.



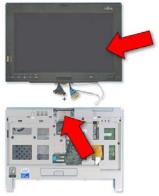
30. Place the heat sink onto the system board and secure it with 2 screws.



32. Connect the IO Board cable, the Bluetooth cable, and the DC power cable to the system board.



34. Place the upper case and connect the ClickPoint button cable and the speaker cable.



36. Extract 3 screws from the PCB.



37. Secure the display with 2 screws in the hinge.



39. Tilt the display up and rotate it $\frac{1}{4}$ turn.



41. Turn the Display back and lay it down.



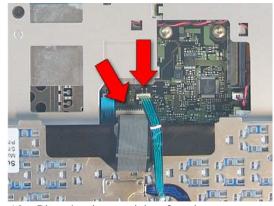
43. Turn the keyboard over and slide it into place



38. Attach the 2 display cables to the system board and the 2 antenna Cables to the WLAN card.



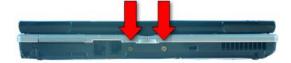
40. Slide the lower hinge cover into place.

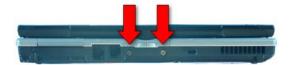


42. Plug in the cables for the keyboard and ClickPoint.

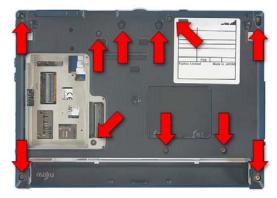


44. Press the keyboard upper trim into place.





45. Close the LifeBook and turn it over.



47. Insert 11 screws into the lower case.



49. Press the latch down to lock the cable into place.

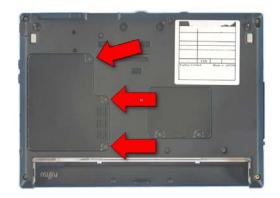


51. Replace the battery.

46. Insert 2 screws into the rear of the LifeBook.



48. Insert the Hard Drive.



50. Replace the Drive cover and secure it with 3 screws.