ThinkPad

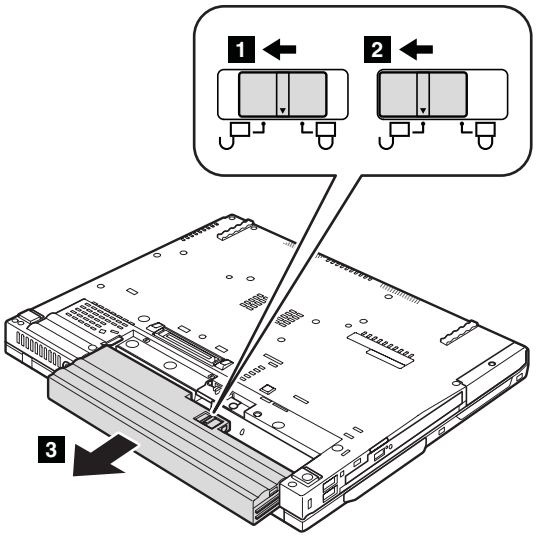
ThinkPad® T60 and T60p (14.1-inch and 15.0-inch) Hardware Maintenance Manual

1010 Battery pack

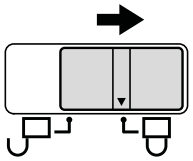
⚠ DANGER

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

Unlock the battery release lever **1** . Holding the battery release lever in the unlocked position **2** , remove the battery pack in the direction shown by arrow **3** .



When installing: Install the battery pack along the slide rails of the slot. Then make sure that the battery release lever is in the locked position as in this figure.

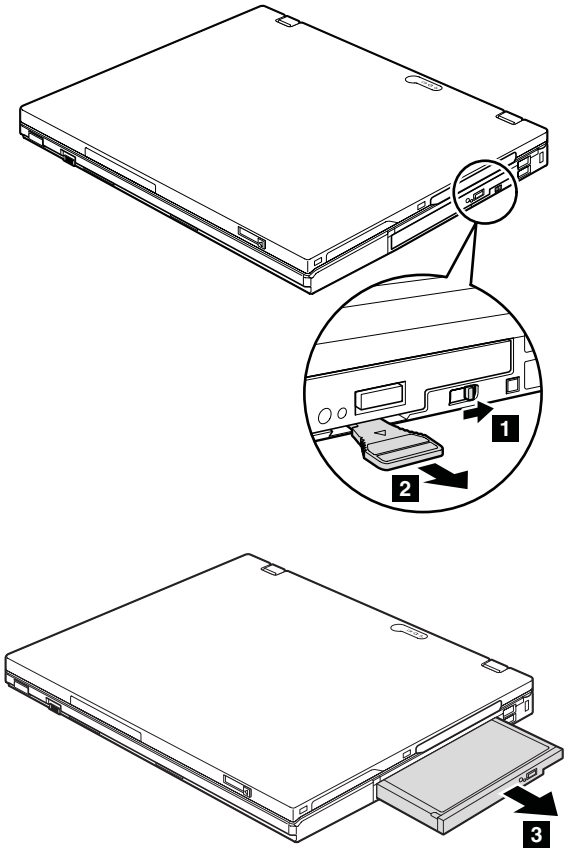


1020 Ultrabay Slim device

Note

Ultrabay Slim does not accept any of the following devices:
- Ultrabay Plus devices
- Ultrabay 2000 devices

When you release the switch in step **1**, the lever pops out. In step **2**, pull the lever a little to release the device from the bay.



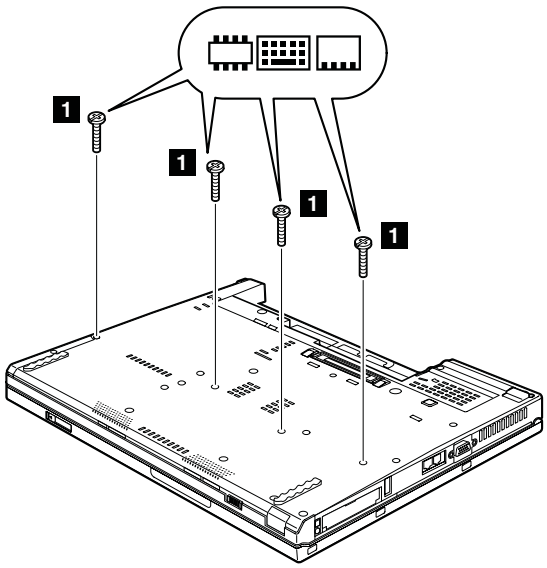
1040 Palm rest or palm rest with fingerprint reader

For access, remove this FRU in order:

- "1010 Battery pack" on page 63

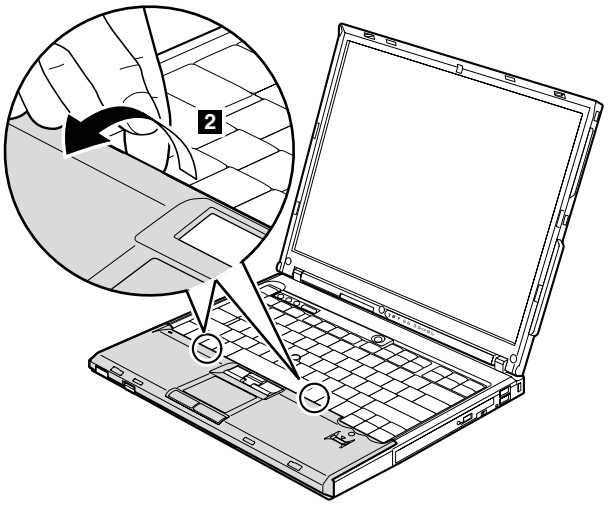
Notes

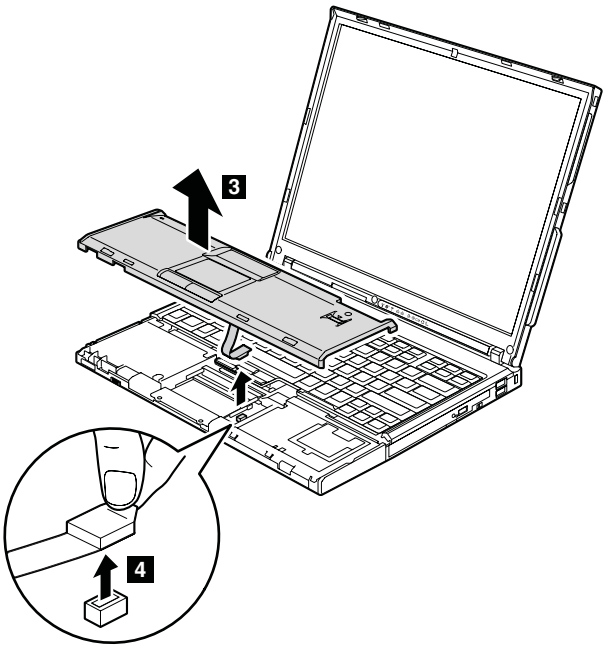
In models with the fingerprint reader, the sensor is attached to the palm rest FRU. If the fingerprint reader has any defects, you can replace it by the procedures given in this section, which are the same for a palm rest with or without a fingerprint reader.



Step	Icon	Screw (quantity)	Color	Torque
1		M2 × 14 mm, flat-head, nylon-coated (4)	Black	0.167 Nm (1.7 kgfcm)

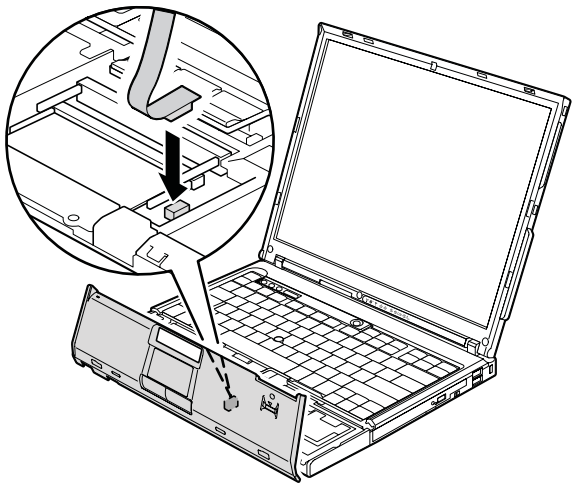
(continued)


2

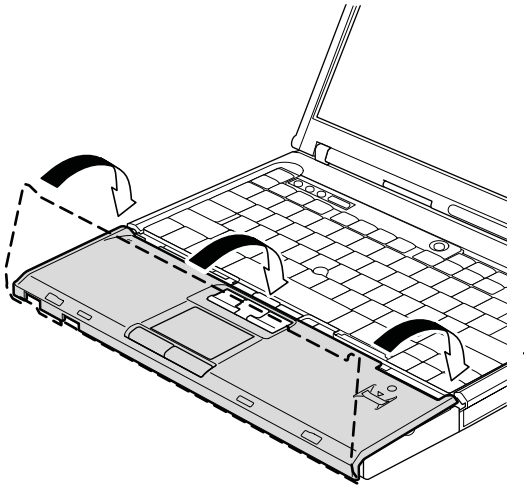

3
4

When installing: When you attach the palm rest, do as follows:

1. Attach the fingerprint reader connector firmly to the system board.

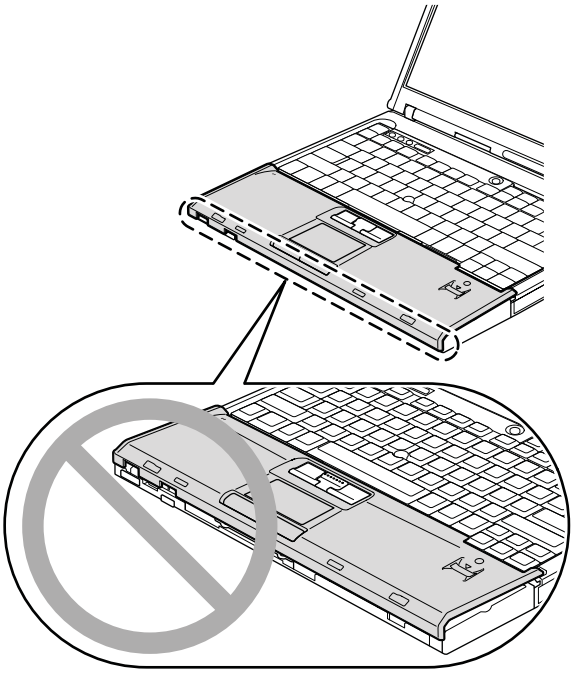


2. **14.1-in. LCD models:**
   a. Align the front side of the palm rest and the frame first; then place the palm rest as shown in this figure.



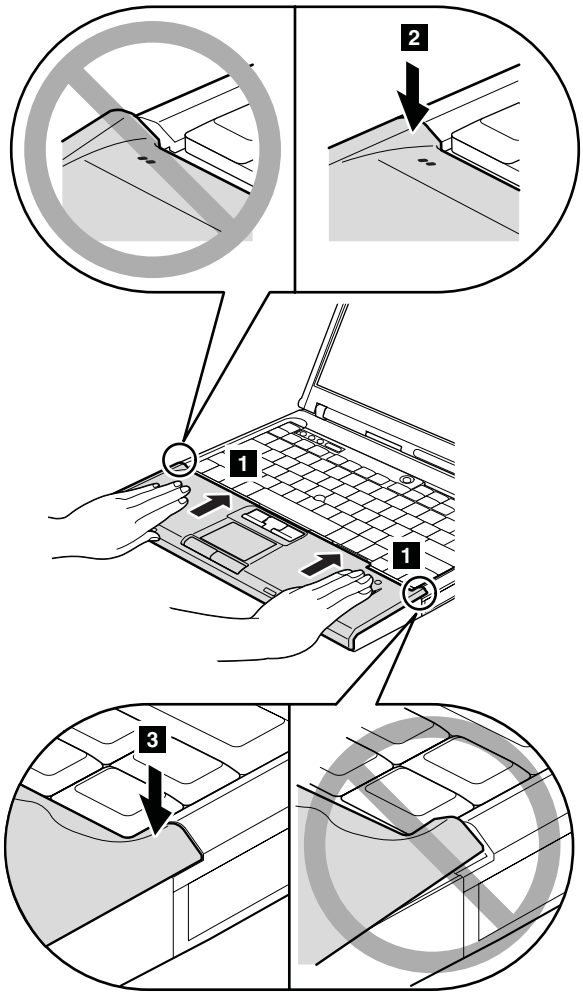
(continued)

Note: Make sure that the frame and the front side of the palm rest are attached firmly.



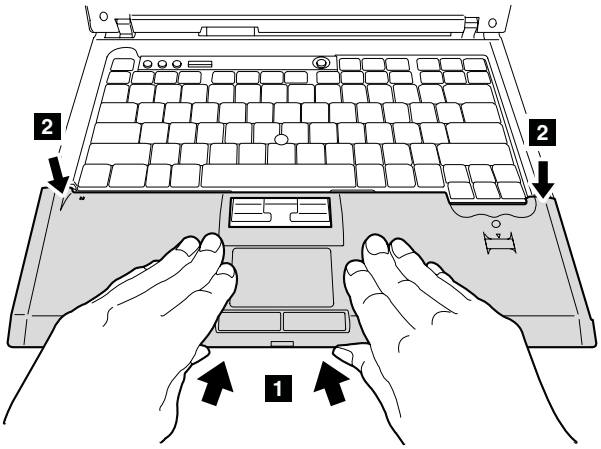
(continued)

b. Push the palm rest a little toward the keyboard **1**, and press the left-top edge **2** and the right-top edge **3** of the palm rest until they latch.

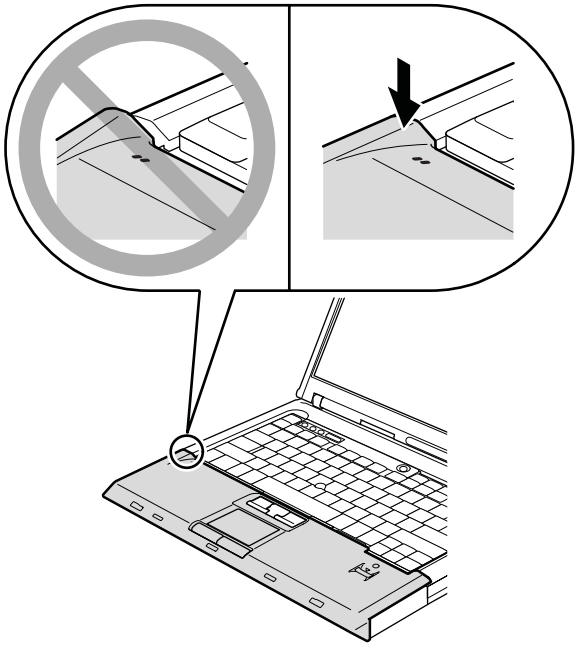


15.0-in. LCD models:

a. Align the front side of the palm rest and the frame, and attach the front-center of the palm rest, as shown in this figure.

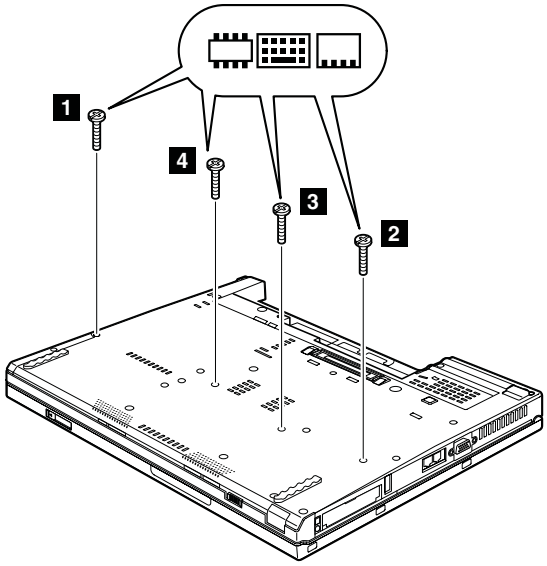


b. Press the left-top edge of the palm rest to latch it, and make sure that the left-top edge, the right-top edge, and the front side of the palm rest are attached firmly.



(continued)

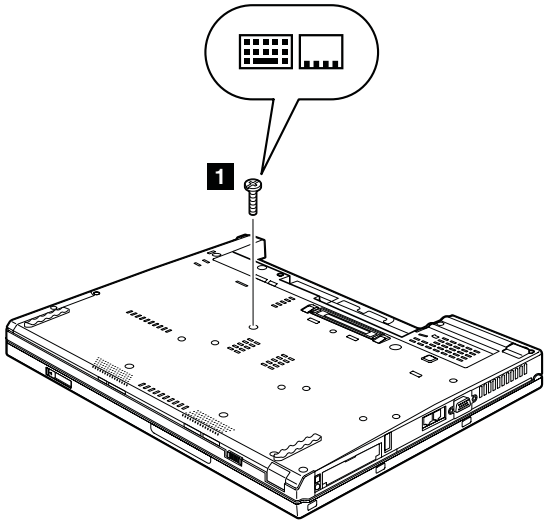
3. Close the LCD cover and turn the computer over. Then fasten the four screws in the order shown in this figure.



1060 Keyboard

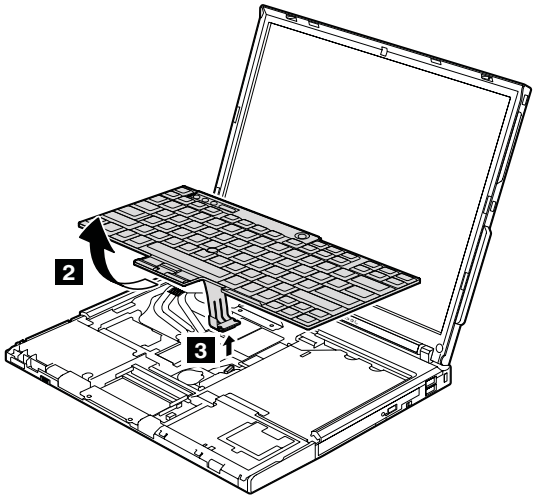
For access, remove these FRUs in order:

- "1010 Battery pack" on page 63
- "1040 Palm rest or palm rest with fingerprint reader" on page 67

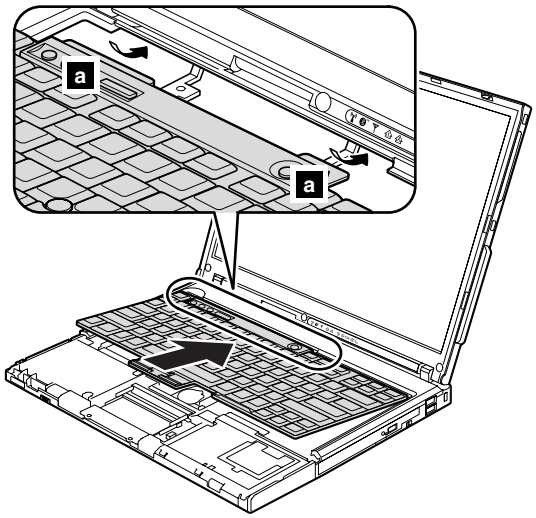


Step	Icon	Screw (quantity)	Color	Torque
1		M2 × 14 mm, flat-head, nylon-coated (1)	Black	0.167 Nm (1.7 kgfcm)

Lift the keyboard a little in the direction shown by arrow 2, and then detach the connector 3.



When installing: Make sure that the keyboard edges **a** are under the frame as shown in this figure.



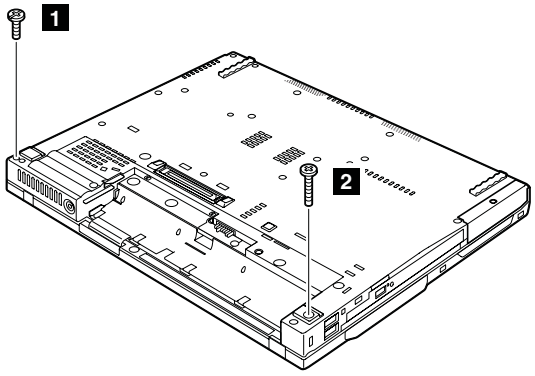
1120 Keyboard bezel and wireless WAN antenna cable (AUX)

Important

For the compatibility of the keyboard bezel, see "FRU compatibility matrix" on page 61.

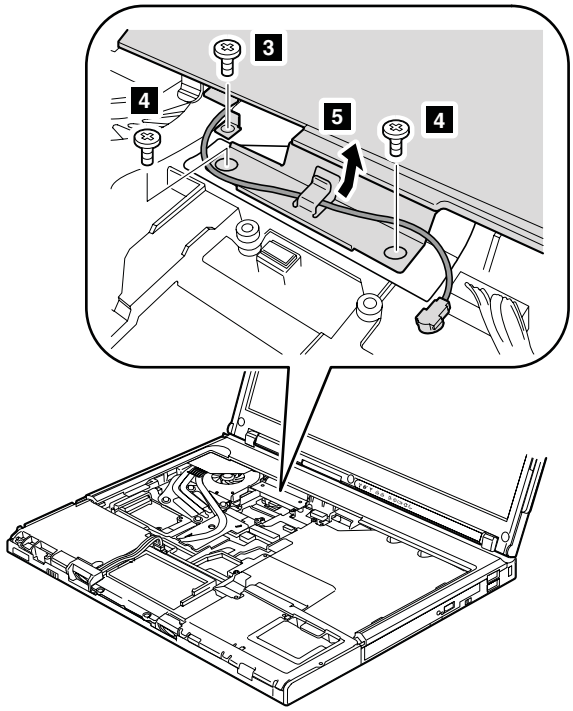
For access, remove these FRUs in order:
- "1010 Battery pack" on page 63
- "1040 Palm rest or palm rest with fingerprint reader" on page 67
- "1060 Keyboard" on page 75
- "1100 PCI Express Mini Card for wireless WAN" on page 83

Note: The wireless WAN antenna (AUX) is attached to the keyboard bezel. When removing it, remove the keyboard bezel first.



Step	Screw (quantity)	Color	Torque
1	M2 × 14 mm, flat-head, nylon-coated (1)	Black	0.167 Nm (1.7 kgfcm)
2	M2 × 19 mm, bind-head, nylon-coated (1)	Black	0.167 Nm (1.7 kgfcm)

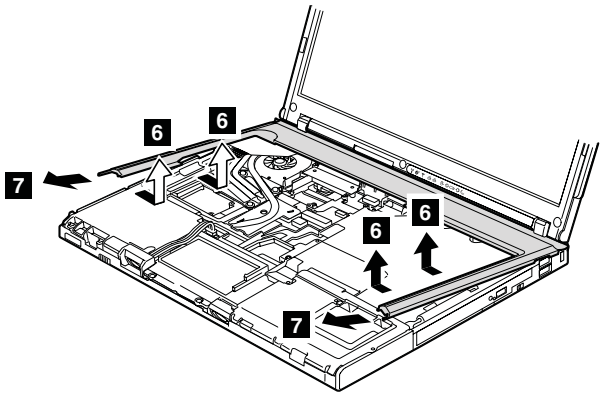
(continued)



Step	Screw (quantity)	Color	Torque
3	M2 × 3 mm, small-head, nylon-coated (1)	Silver	0.167 Nm (1.7 kgfcm)
4	M2 × 3.5 mm, flat-head, nylon-coated (2)	Black	0.167 Nm (1.7 kgfcm)

In step 5, release the wireless antenna cable from the cable guide. In some models, three cables may have to be released in this step.

In step 6, detach the claws. Then remove the keyboard bezel in the direction shown by arrow 7.



When installing: Make sure that all the claws are attached firmly. Then fasten the screws to secure the keyboard bezel.

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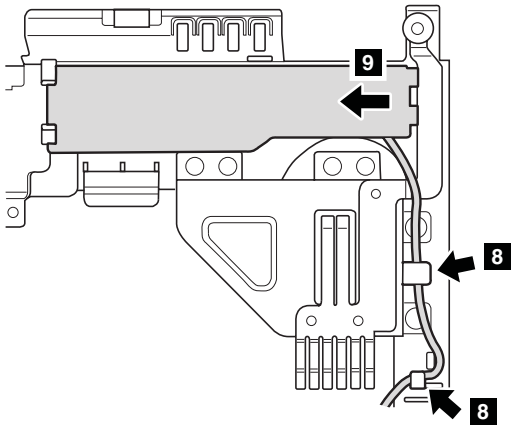
Note: Steps **8** and **9** are for the wireless WAN antenna cable (AUX).

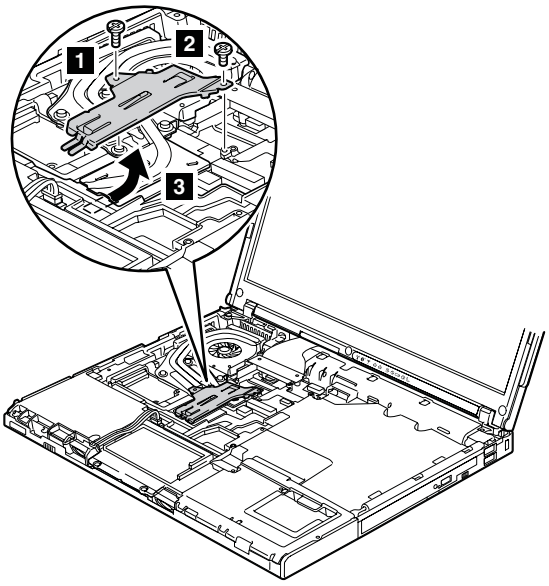


When installing: Make sure that the antenna cable is routed along the cable guides.

1130 Fan assembly

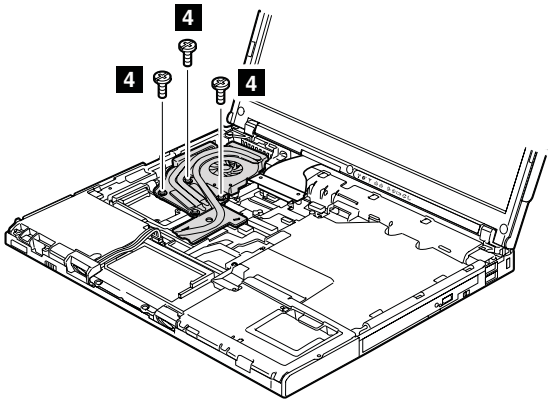
Important
For the compatibility of the fan assembly, see "FRU compatibility matrix" on page 61.

For access, remove these FRUs in order:
- "1010 Battery pack" on page 63
- "1040 Palm rest or palm rest with fingerprint reader" on page 67
- "1060 Keyboard" on page 75
- "1120 Keyboard bezel and wireless WAN antenna cable (AUX)" on page 86



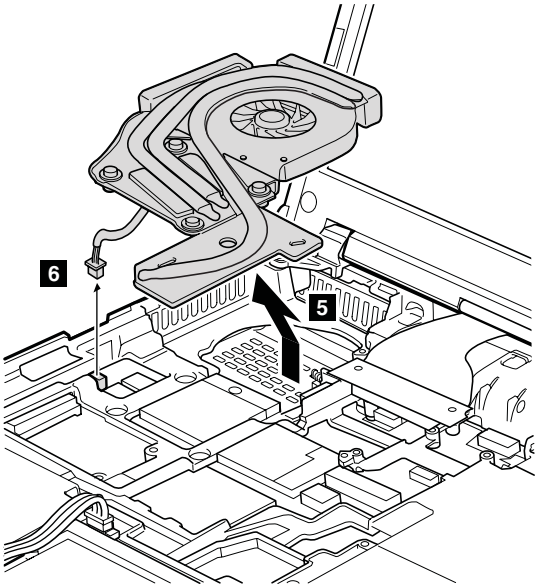
Step	Screw (quantity)	Color	Torque
1	M2 × 9.5 mm, flat-head, nylon-coated (1)	Black	0.167 Nm (1.7 kgfcm)
2	M2 × 3 mm, small-head, nylon-coated (1)	Silver	0.167 Nm (1.7 kgfcm)

(continued)



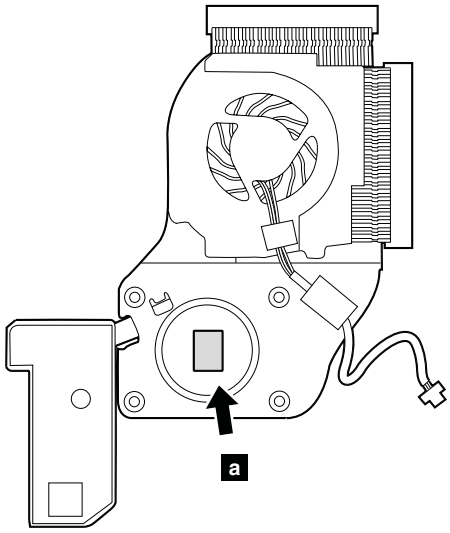
Step	Screw (quantity)	Color	Torque
4	M2 × 9.5 mm, flat-head, nylon-coated (3)	Black	0.167 Nm (1.7 kgfcm)

Attention: Do not handle the fan roughly. Improper handling of the fan can cause distortion or deformation and imperfect contact with components.

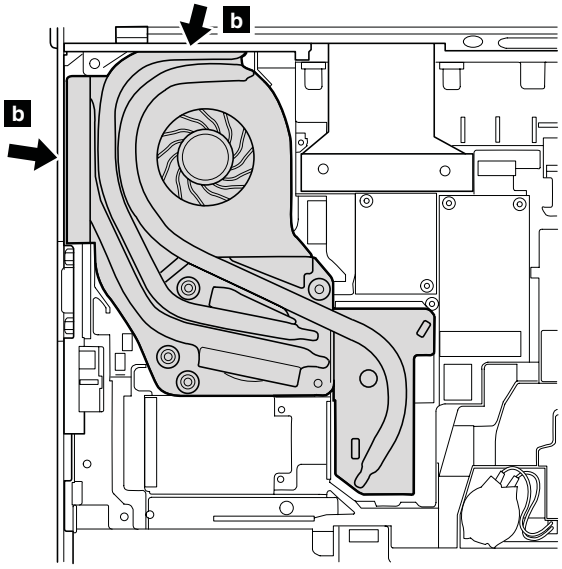


When installing:

- Before you attach the fan assembly to the computer, apply thermal grease, at an amount of 0.2 grams, on the part marked **a** as in the following figure. Either too much or too less application of grease can cause a thermal problem due to imperfect contact with a component.

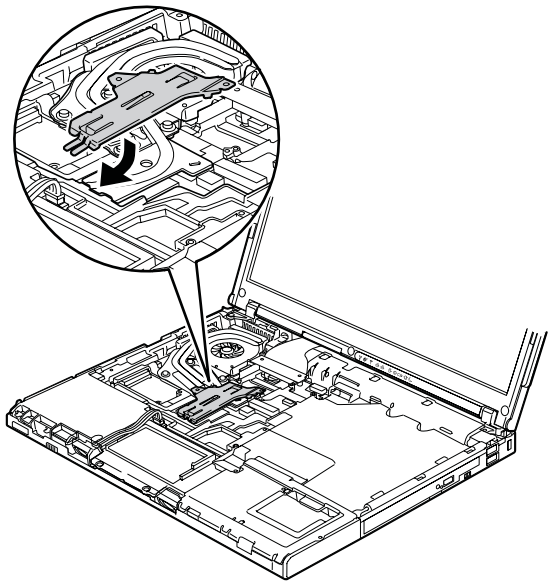
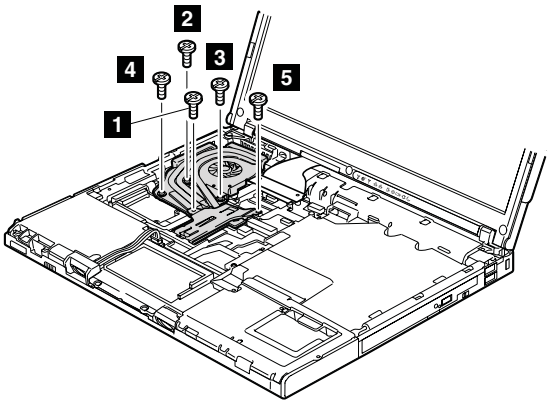


- Make sure that the fan connector is attached firmly.
- When attaching the fan assembly to the frame, take care not to damage the heat sink (**b**) of the fan assembly.



(continued)

- Attach the fan bracket.



- Secure the screws in order as shown in this figure.
  Attention: Do not use an electric screwdriver to secure these screws.