

Dell® Inspiron™ 7000

**SERVICE MANUAL**

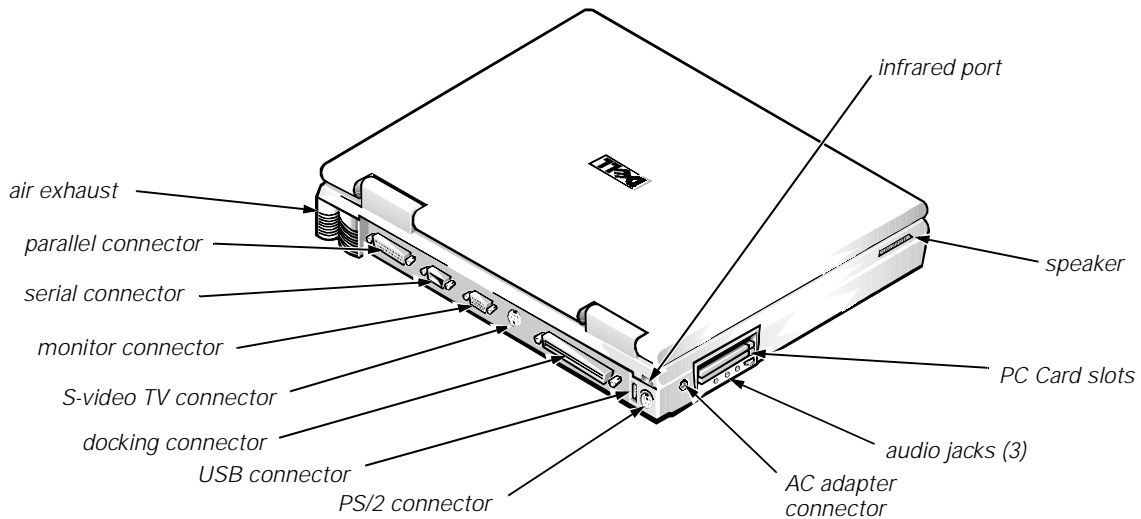
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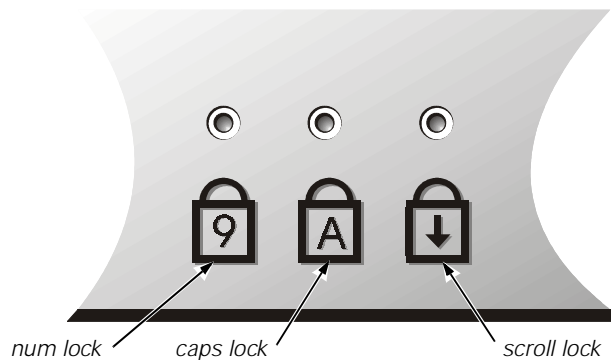


**Figure 1-2. Back View**

## Status Display

Three status lights are located in the indicator panel directly above the keyboard (see Figure 1-3):

- Num Lock: Solid green light when Num Lock is on. Press <Num Lock> to turn this feature on or off.
- Caps Lock: Solid green light when Caps Lock is on. Press <Caps Lock> to turn this feature on or off.
- Scroll Lock: Solid green light when Scroll Lock is on. Press <Scroll Lock> to turn this feature on or off.



**Figure 1-3. Indicator Panel above Keyboard**

Five additional status lights are located on the front of the unit, three in the indicator panel below the display latch and two on the left side (see Figure 1-4):

- System power: Solid green light when the system is on; blinking green light when system is in suspend state.

**Table 1-2. Technical Specifications** *(continued)*

<b>Physical (Computer)</b>	
Height . . . . .	54 mm (2.1 inches)
Width . . . . .	318 mm (12.52 inches)
Depth . . . . .	254 mm (10 inches)
Weight (includes hard-disk drive, diskette drive, and CD-ROM drive). . . . .	3.74 kg (8.25 lb) with 13.3-inch display 3.8 kg (8.37 lb) with 14.1-inch display
<b>Environmental (Computer)</b>	
Temperature:	
Operating . . . . .	5° to 35°C (41° to 95°F)
Storage . . . . .	-20° to 50°C (-4° to 122°F)
Relative humidity . . . . .	10% to 90% (noncondensing)
Maximum vibration:	
Operating . . . . .	0.8 GRMS using a random-vibration spectrum that simulates air shipment
Storage . . . . .	1.3 GRMS using a random-vibration spectrum that simulates truck shipment
Maximum shock: <sup>2</sup>	
Operating . . . . .	1.52 m/sec (4.98 ft/sec) (less than or equal to a pulse width of 2 ms)
Storage . . . . .	2.03 m/sec (6.66 ft/sec) (less than or equal to a pulse width of 2 ms)
Altitude:	
Operating . . . . .	0 to 3048 m (0 to 10,000 ft)
Storage . . . . .	0 to 12,192 m (0 to 40,000 ft)

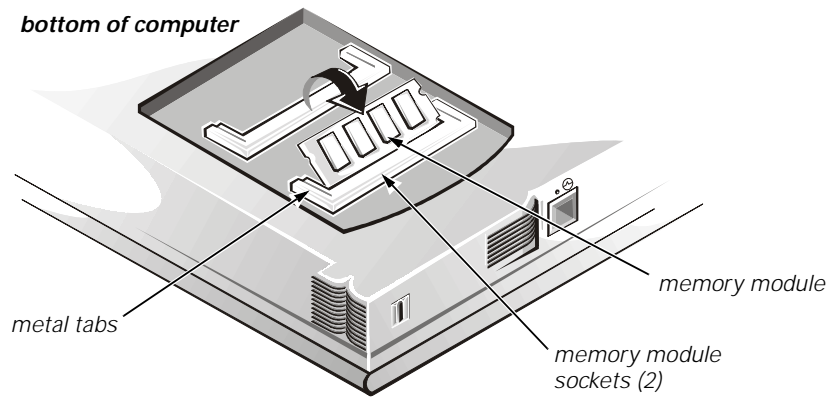
<sup>2</sup> Measured with the hard-disk drive in head-parked position.

**Table 3-2. System Error Messages** (continued)

<b>Message</b>	<b>Definition</b>	<b>Probable Causes</b>
Failing bits: <i>nnnn</i>	Memory failed at RAM address <i>nnnn</i> .	Faulty or improperly seated memory module. Faulty main board.
Fixed disk 0 failure	The hard-disk drive failed to initialize.	Corrupted hard-disk drive boot sector or configuration file. Faulty hard-disk drive. Faulty main board.
Fixed disk controller failure	The hard-disk drive controller may be faulty.	Faulty hard-disk drive. Faulty main board.
Incorrect drive A type—run Setup	The diskette drive is not identified properly in the Setup program.	Incorrect drive configuration. Faulty connections. Faulty diskette drive. Faulty main board.
Keyboard controller error	The keyboard controller is faulty.	Faulty keyboard connection. Faulty keyboard. Faulty main board.
Keyboard error	If an external keyboard is being used, a cable or connector may be loose or the keyboard may be faulty. If the built-in keyboard is being used, it may be faulty. A key on the built-in keyboard may have been pressed while the computer was booting.	Built-in keyboard: faulty keyboard or key pressed while computer booting. External keyboard: cable or connector loose. Faulty keyboard or key pressed while computer booting.
Operating system not found	The operating system may be corrupted. Or, the operating system cannot be found on the hard-disk drive or on the diskette in the diskette drive.	Incorrect drive configuration. Operating system not installed on hard-disk drive or diskette drive not bootable. Faulty connections. Faulty drive. Faulty main board.
Parity check 1 <i>nnnn</i>	A parity error was found in the system bus at address <i>nnnn</i> .	Faulty main board.
Parity check 2 <i>nnnn</i>	A parity error was found in the I/O bus at address <i>nnnn</i> .	Faulty main board.

9. Remove the memory modules.

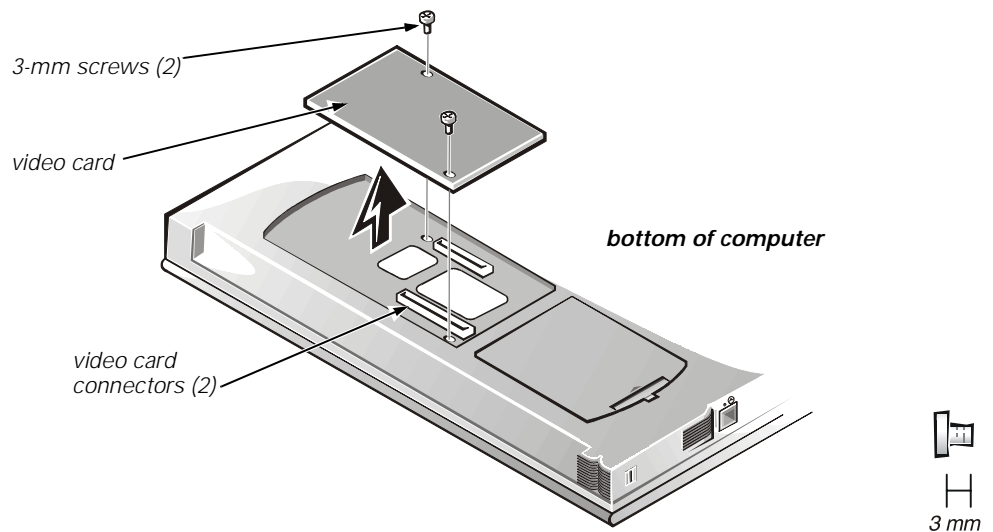
Carefully spread the inner metal tabs of the memory module socket to disengage the module from the socket. The module should pop up slightly. Then pull the memory module out of the socket (see Figure 4-9).



**Figure 4-9. Memory Module Removal**

10. Remove the video card.

Remove the two 3-mm screws securing the video card (see Figure 4-10). Gently pull the video card off of the connectors on the bottom of the system board by lifting it at the notches located between the screws. Do not rock the card to remove it because this may damage the connectors.



**Figure 4-10. Video Card Removal**

Inspect the two thermal pads on the bottom of the system board and replace them if necessary.

**Table 4-1. Factory Repair Parts and Assemblies** (continued)

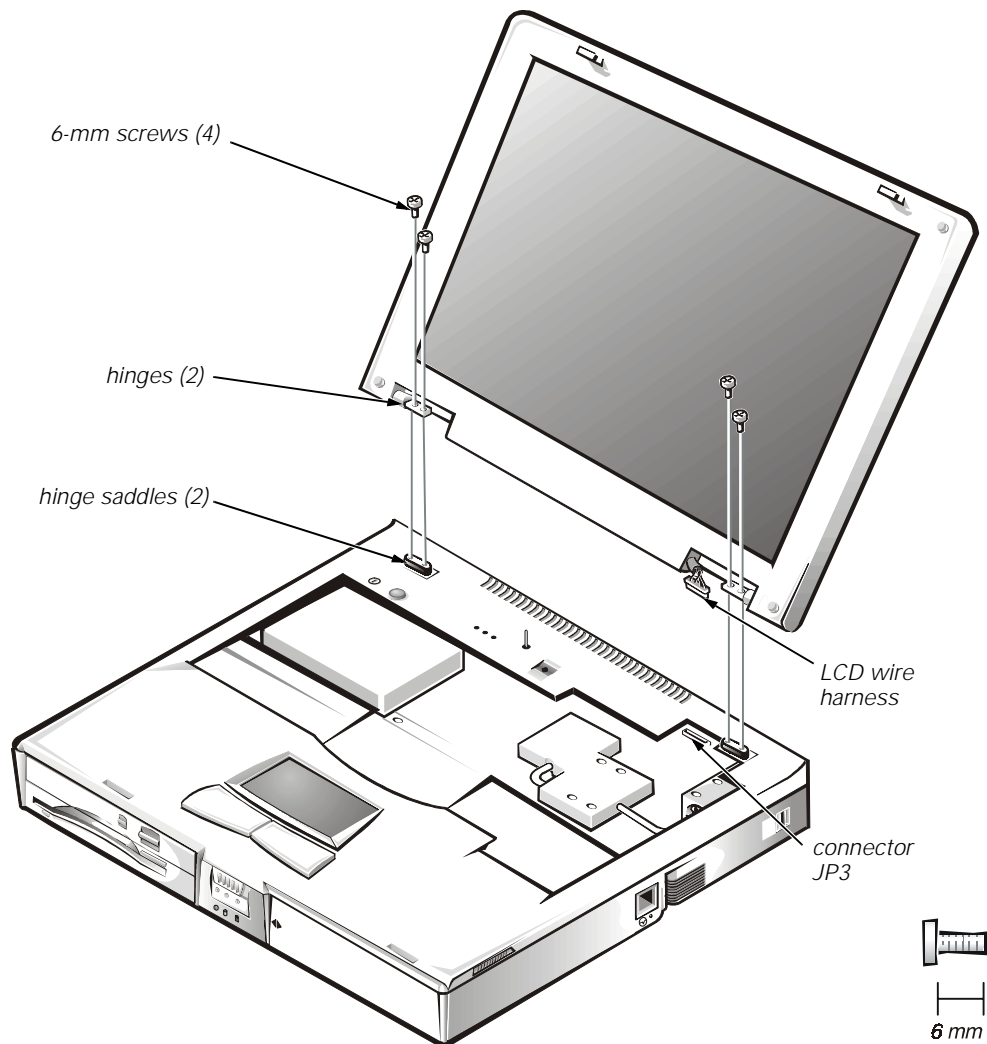
<b>Part or Assembly Name</b>	<b>Order Name</b>
<b>Upper Logic</b>	
Palmrest Plastics	CVR,BTM,PLSTC,NBK,I7000
Left Touch Pad Button	n/a
Right Touch Pad Button	n/a
Left Touch Pad Button Hinge	n/a
Right Touch Pad Button Hinge	n/a
Right Speaker Cover	CVR,PLSTC,SPKR,RT,NBK,I7000
Left Speaker Cover	CVR,PLSTC,SPKR,LF,NBK,I7000
Right Speaker w/ wire	SPKR,0.6W,23M,RT,NBK,I7000
Left Speaker w/ wire	SPKR,0.6W,23M,LF,NBK,I7000
Hard-Disk Drive Heat Sink, under Palmrest	HTSNK,HD,NBK,I7000
Touch Pad Button Board	CRD,INTFC,BTN,TPAD,NBK,I7000
Touch Pad Bracket	BRKT,MET,TPAD,NBK,I7000
Touch Pad	CRD,INTFC,TPAD,NBK,I7000
Touch Pad Flex Cable	CBL,FLEX,CRD,TPAD,NBK,I7000
Touch Pad Button, Audio Cable	CBL,INTFC,TPAD,NBK,I7K
Display Latch Assembly	ASSY,LTCH,PLMRST,NBK,I7000
Latch Button	n/a
Slide Mechanism	n/a
Spring	SPR,LTCH,NBK,I7000
IR, Microphone Board	CRD,IR,NBK,I7000
IR Cable	CBL,FLEX,CRD,IR,NBK
IR Lens 13.3" and 14.1"	LENS,IR,NBK,I7K
<b>LCD Parts for 13.3-Inch</b>	
13.3" LCD Panel	LCD,TFT,XGA,13.3,I7000,LG
Front Bezel	BZL,PLSTC,LCD,13.3,NBK,I7000
Display Hinge	HNG,MET,LCD,I7000
Display Back Cover	CVR,BK,LCD,13.3,I7000
Display Upper Rubber Bumper	BMPR,RBR,UPR,LCD,I7000
Display Lower Rubber Bumper	BMPR,RBR,LWR,LCD,I7000
LCD Flex Cable Assembly	CBL,FLEX,LCD,13.3,I7000,LG
LCD Shielding, behind panel	SHLD,EMI,LCD,13.3,NBK,I7000

**Table 4-1. Factory Repair Parts and Assemblies** (continued)

<b>Part or Assembly Name</b>	<b>Order Name</b>
	<b>Assemblies</b>
Base Assembly, 13.3"	ASSY,NBK,BASE,I7000,13.3,OEM
Base Assembly, 14.1"	ASSY,NBK,BASE,I7000,14.1,OEM
Floppy Disk-Drive Assembly	ASSY,FD,1.44M,11MM,COMBO,I7000
DVD-ROM Assembly	ASSY,DVD,17G,2X,INT,MKE,I7000
Display Assembly, 13.3"	ASSY,LCD,XGA,13.3,I7000,LG
Display Assembly, 14.1"	ASSY,LCD,XGA,14.1,I7000,LG
System Board Assembly	ASSY,SYS,PLN,I7000
Bottom Plastic Assembly	ASSY,CVR,BTM,PLSTC,I7000
Palmrest Assembly	ASSY,PLMRST,PLSTC,BLK,I7000
Touchpad Assembly	ASSY,TPAD,NBK,I7000
Speaker Assembly	ASSY,SPKR,INT,NBK,I7000
Palmrest Latch Assembly	ASSY,LTCH,PLMRST,NBK,I7000
Bottom Plastic Assembly w/ Reg Label	ASSY,BTM CASE,W/LBL,I7K

## Display Assembly

This section provides the removal procedure for the display assembly.



**Figure 4-24. Display Assembly Removal**

This procedure assumes that you have removed the keyboard and thermal shield. To remove the display assembly from the computer, follow these steps (see Figure 4-24):

1. Disconnect the LCD wire harness from connector JP3.  
Use a dental pick or flat-blade screwdriver to pry up each end of the connector to release it.
2. Close the display.
3. Remove the four 6-mm screws that secure the two hinges.
4. Unlatch the display assembly and lift the assembly off the computer base.

5. Turn the unit back over.
6. Remove the three 6-mm screws from the top of the base assembly, along the back edge.
7. Remove the 6-mm screw from the DC-DC board.
8. Remove the 4-mm screw and the washer securing the grounding strap to the PC Card heat shield.
9. Disconnect the speaker wire harness from connector JP18 on the left side of the system board.

This wire harness also contains wiring for the touch pad and the touch pad buttons.

10. Disconnect the LED cable from connector JP10 on the system board.
11. Remove the palmrest assembly from the base assembly.

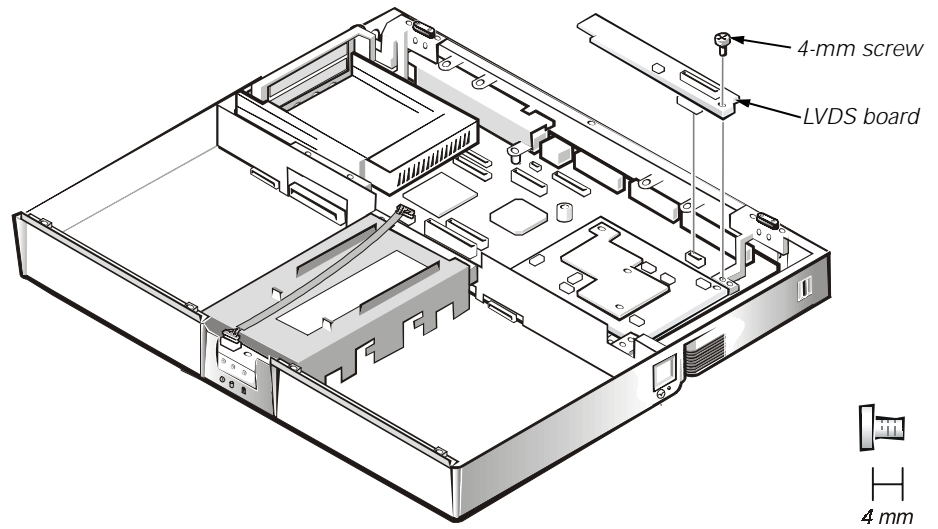
Start at the back right of the computer and move forward around the computer. Carefully lift the palmrest assembly up and pull it forward to unsnap the hidden tabs spaced around the sides and along the top of the battery bay and options bay.

When replacing the palmrest assembly, orient the assembly in its original position on the base assembly and press firmly near each tab until the palmrest assembly snaps into place. Start at the front to align those tabs first. Make sure that all the tabs are aligned.

The following subsections provide removal and replacement procedures for the components of the palmrest assembly.

## LVDS Board

This section provides the removal procedure for the LVDS board.



**Figure 4-38. LVDS Board Removal**

To remove the LVDS board, follow these steps (see Figure 4-38):

1. Remove the 4-mm screw securing the LVDS board.
2. Gently pull the LVDS board off of connectors JP9 and JP8 on the system board. Do not rock the board to remove it, because this may damage the connectors.

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