# Inspiron Gaming Desktop Service Manual

Computer Model: Inspiron 5675 Regulatory Model: D27M Regulatory Type: D27M001



# Notes, cautions, and warnings



NOTE: A NOTE indicates important information that helps you make better use of your product.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Status

Released

#### Before working inside your computer

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NOTE: The images in this document may differ from your computer depending on the configuration you ordered.

Before you begin				
Status	Released			
Identifier	GUID-D1AE8571-3E47-4D09-AD7C-6AB2F8F0541F			

- **1** Save and close all open files and exit all open applications.
- 2 Shut down your computer. Click Start  $\rightarrow \bigcirc$  Power  $\rightarrow$  Shut down.

### NOTE: If you are using a different operating system, see the documentation of your operating system for shut-down instructions.

- **3** Disconnect your computer and all attached devices from their electrical outlets.
- **4** Disconnect all attached network devices and peripherals, such as keyboard, mouse, and monitor from your computer.
- **5** Remove any media card and optical disc from your computer, if applicable.
- 6 After the computer is unplugged, press and hold the power button for 5 seconds to ground the system board.



GUID-06588814-2678-4667-9FF9-C009F4BCE185

Status

Released

# After working inside your computer



#### CAUTION: Leaving stray or loose screws inside your computer may severely damage your computer.

- 1 Replace all screws and ensure that no stray screws remain inside your computer.
- 2 Connect any external devices, peripherals, or cables you removed before working on your computer.
- **3** Replace any media cards, discs, or any other parts that you removed before working on your computer.
- 4 Connect your computer and all attached devices to their electrical outlets.
- **5** Turn on your computer.

GUID-71128823-CE64-4E17-9439-DEE95AF668C4

Status

Released

### Safety instructions

Use the following safety guidelines to protect your computer from potential damage and ensure your personal safety.



WARNING: Before working inside your computer, read the safety information that shipped with your computer. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u><u>regulatory\_compliance</u>.



WARNING: Disconnect all power sources before opening the computer cover or panels. After you finish working inside the computer, replace all covers, panels, and screws before connecting to the electrical outlet.



CAUTION: To avoid damaging the computer, ensure that the work surface is flat and clean.

CAUTION: To avoid damaging the components and cards, handle them by their edges, and avoid touching pins and contacts.



CAUTION: You should only perform troubleshooting and repairs as authorized or directed by the Dell technical assistance team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. See the safety instructions that shipped with the product or at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

CAUTION: Before touching anything inside your computer, ground yourself by touching an unpainted metal surface, such as the metal at the back of the computer. While you work, periodically touch an unpainted metal surface to dissipate static electricity, which could harm internal components.





CAUTION: When you disconnect a cable, pull on its connector or on its pull tab, not on the cable itself. Some cables have connectors with locking tabs or thumb-screws that you must disengage before disconnecting the cable. When disconnecting cables, keep them evenly aligned to avoid bending any connector pins. When connecting cables, ensure that the ports and connectors are correctly oriented and aligned.



CAUTION: Press and eject any installed card from the media-card reader.



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Status

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### **Recommended tools**

The procedures in this document may require the following tools:

- · Phillips screwdriver
- Plastic scribe

#### GUID-0FB72875-2CE1-490D-8E55-4083E488BE9E

**Status** 

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Released

#### System board components



- light bar connector 1 2 3 power-button board cable connector 4 5 memory module slot 6 7 wireless-card slot 8 9 light bar connector 10 11 12 SATA1 connector 13 front chassis fan connector
- processor-power cable connector
- processor-fan cable connector
- USB 3.0 cable connector
- USB 2.0 cable connector
- 0 power-supply unit cable connector
- 2 USB 3.0 cable connector
- 14 SATA0 connector

- 15 SATA2 connector
- 17 coin-cell battery
- 19 processor socket
- 21 PCle slot 2
- 23 PCle slot 4
- 25 front audio connector

- 16 M.2 SATA connector
- 18 SATA3 connector
- 20 graphics-card slot
- 22 PCle slot 3
- 24 chassis fan connector

Identifier GUID-30493006-A1BD-460E-A950-203FD4B4E775

Status

Released

### System board components

For computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors



6

- USB 3.0 cable connector
- 8 USB 2.0 cable connector
- 10 power-supply unit cable connector
- 12 USB 3.1 (Type-C) cable connector

5

7

9

11

memory module slot

wireless-card slot

light bar connector

SATA1 connector

- 13 USB 3.0 cable connector
- 15 SATAO connector
- 17 M.2 SATA connector
- 19 SATA4 connector
- 21 processor socket
- 23 PCle slot 2
- 25 PCle slot 4
- 27 front audio connector

- 14 front chassis fan connector
- 16 SATA2 connector
- 18 coin-cell battery
- 20 SATA3 connector
- 22 graphics-card slot
- 24 PCle slot 3
- 26 chassis fan connector

GUID-789AF2C8-1745-435F-947E-DB7581BEF8E6

Status

Released

#### Screw list

The following table provides the list of screws that are used for securing different components to the computer.

#### Table 1. Screw list

Component	Secured to	Screw type	Quantity	Screw image
Right-side cover	Chassis	6-32UNCx6.3	2	
Light bar	Chassis	M3x5	1	The second secon
Solid-state drive	System board	M2x3.5	1	
Front panel light board	Chassis	M3x5	1	
Logo board	Chassis	M3x5	2	
Wireless card	System board	M2x3.5	1	
3.5" hard drive	Chassis	6-32UNCx3.6	2	
Hard-drive bracket	Hard drive	6-32UNCx3.6	4	
2.5" hard drive	Chassis	6-32UNCx3.6	1	



Component	Secured to	Screw type	Quantity	Screw image
Hard-drive bracket	Hard drive	M3x3.5	4	<b>e</b>
Graphics-card bracket (only with computers shipped with AMD Ryzen 3/ Ryzen 5/ Ryzen 7 processors)	Chassis	6-32UNCx3.6	2	
Graphics card	Chassis	6-32UNCX3.6	1 (only with computers shipped with AMD Quad- Core APU processors) 2 (only with computers shipped with AMD Ryzen 3/ Ryzen 5/ Ryzen 7 processors)	
Fan (only with computers shipped with AMD Ryzen 3/ Ryzen 5/ Ryzen 7 processors)	Chassis	6-32UNCx3.6	1	
Power-supply unit	Chassis	6-32UNCx6.3	4	
Front cover	Chassis	6-32UNCX3.6	1	

Component	Secured to	Screw type	Quantity	Screw image
Optical drive	Chassis	M3x5	1	<b>X</b>
Front I/O panel	Chassis	M3x5	2	
Top cover	Chassis	M3x5	1	
Front bezel	Chassis	M3x5	11	
Antenna	Chassis	M3x5	2	·
Left-side cover	Chassis	M3x5	2	·
Bottom cover	Chassis	M3x5	3	No.
Top bracket	Chassis	M3x5	2	No.
System board	Chassis	6-32UNCx6.3	8	

GUID-32920A3D-EF37-460E-B64C-7149A8013426

Status

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### Removing the right-side cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.

Identifier	GUID-FDE02A8E-D1D8-4715-84E7-135C5599D81D
Status	Released
Procedure	

1 Remove the two screws (6-32UNCx6.3) that secure the cover to the chassis.

**2** Release the computer cover by sliding it towards the back of the computer and lift the cover off the chassis.



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GUID-1C3945D8-E66C-4259-9384-C8C7E07F7495

Status

Released

# Replacing the right-side cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-AE843551-0009-44F8-850F-F3C82AA12173
Status	Released
Procedure	

- 1 Align the tabs on the computer cover with the slots on the chassis and slide it towards the front of the computer.
- **2** Replace the two screws (6-32UNCx6.3) that secure the computer cover to the chassis.

GUID-F7138A23-9ABB-482C-B241-7FB96F36417B

Status

Released

#### Removing the front cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE	
Status	Released	
Prerequisites		

Remove the <u>right-side cover</u>.

Identifier	GUID-E801D239-4162-4E97-95F9-0D3A119427F9
Status	Released
Procedure	

1 Remove the screw (6-32UNCx3.6) that secures the front cover to the chassis.

**2** Grasp and release the front cover tabs sequentially from the top, by moving them outward from the front bezel.



GUID-44D4910E-043B-495A-A75E-DCBD5E9F4C43

Status

Released

### Replacing the front cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-DFAAB95D-7FA7-4F38-A607-DD3EC00CDD4C
Status	Released
Procedure	

- 1 Align and insert the front-cover tabs into the front-panel slots and snap into place.
- 2 Replace the screw (6-32UNCx3.6) that secures the front cover to the chassis.

Identifier GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

Released

#### Post-requisites

Replace the <u>right-side cover</u>.

GUID-47896E9F-B3AA-4486-93CC-B381C3032AFB

Status

Released

### Removing the slim optical drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-6504958B-E9AE-45B7-8C36-250B50B118C4	
Status	Released	
Prerequisites		

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>front cover</u>.

Identifier GUID-AC2A27D9-4A33-43D5-8589-A29EB436959F

Status

Released

#### Procedure

- 1 Disconnect the power cable from the optical drive.
- 2 Disconnect the data cable from the optical drive.

**3** Pull to slide the slim optical-drive assembly out through the front of the computer.



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**4** Using your finger tips, pry the slim optical-drive bracket from the optical drive.

5 Lift the slim optical-drive assembly off the slim optical-drive bracket.



**6** Remove the slim optical-drive bezel from the optical drive.



GUID-3856FF46-1B1F-4FC1-AB5B-4269FED00B90

Status

Released

# Replacing the slim optical drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-87E3100B-0046-4D1C-9EE2-3EE84BAFA8BB
Status	Released
Procedure	

#### 1 Align and snap the slim optical-drive bezel to the optical drive.

- **2** Place the slim optical-drive assembly on the slim optical-drive bracket and snap the slim optical-drive assembly in place.
- **3** Slide the slim optical-drive assembly into the slim optical-drive bay through the front of the computer.
- 4 Connect the data cable and power cable to the optical drive.

 Identifier
 GUID-20BB6126-46D1-491E-A5CF-F259EFDC85F9

 Status
 Released

#### Post-requisites

- 1 Replace the <u>front cover</u>.
- 2 Replace the <u>right-side cover</u>.



GUID-0FBC2374-7C65-40A1-BABA-011A9314D6FA

Status

Released

### Installing the optical drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-A96D7521-0DDD-4E38-B774-04ED544695CA	
Status	Released	
Prerequisites		

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>slim optical drive</u>.

Identifier	GUID-9FC7EAAD-A905-4C34-AA2F-F5F7DCD0A022
Status	Released
Due e e dune	

#### Procedure

1 Using a screwdriver, loosen the filler plate that is secured to the chassis.

2 Remove the filler plate from the chassis.



- **3** Slide the optical drive into the optical-drive bay through the front of the computer.
- **4** Remove the screw (M3) from the chassis and replace that to secure the optical drive to the chassis.
- **5** Connect the power cable to the optical drive.

6 Connect the data cable to the optical drive.


GUID-5F25DB7E-BE9A-49D8-A32A-AAD2A7EDBB9E

Status

Released

## Removing the optical drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-6504958B-E9AE-45B7-8C36-250B50B118C4
Status	Released
Prerequisites	

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>front cover</u>.

Identifier GUID-F95C0C2D-7BD2-4BEF-9A49-1F27149D09F9

Status

Released

### Procedure

- 1 Disconnect the data cable from the optical drive.
- 2 Disconnect the power cable from the optical drive.
- **3** Remove the screw (M3x5) that secures the optical drive to the chassis.

4 Push to slide the optical drive out through the front of the computer.



GUID-01750DAC-3408-4912-B936-7DAA79351AA9

Status

Released

## Replacing the optical drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-A624C137-3F8E-4448-B8C0-AF1A75F3AF94
Status	Released
Procedure	

- 1 Slide the optical drive into the optical-drive bay through the front of the computer.
- 2 Replace the screw (M3x5) that secures the optical drive to the chassis.
- **3** Connect the data cable and power cable to the optical drive.

Identifier GUID-20BB6126-46D1-491E-A5CF-F259EFDC85F9

Status

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### Post-requisites

- 1 Replace the <u>front cover</u>.
- 2 Replace the <u>right-side cover</u>.



GUID-D2D3628D-0E08-458C-8A93-86FADC96720D

Status

Released

## Removing the light bar

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Identifier	GUID-8B9E9AA4-9CF0-49C0-A7D8-A9D122215450
Status	Released
Procedure	

- 1 Disconnect the light bar cable from its connector on the chassis.
- **2** Remove the screw (M3x5) that secures the light bar to the chassis.

**3** Slide and remove the light bar from the chassis.



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GUID-05D548D8-E9E9-4FDF-A31B-CA1DF3FEA570

Status

Released

# Replacing the light bar

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-CCC9ECE1-F07B-4761-97AE-E3603B1CD91F
Status	Released
Procedure	

- 1 Align and slide the light bar into the slot on the chassis.
- 2 Replace the screw (M3x5) that secures the light bar to the chassis.
- **3** Connect the light bar cable to its connector on the chassis.

 Identifier
 GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

 Status
 Released

 Post-requisites

Replace the <u>right-side cover</u>.

GUID-4290FDC0-A098-4D76-91B1-4DB14D54CD01

Status

Released

## Removing the memory module

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the right-side cover.

# Identifier GUID-DFA59FFD-53E9-4E5B-B5FC-C15AF5C8FFFE Status Released Procedure

1 Place the computer with the side-chassis facing up and locate the memory card slot on the system board.



**2** Using your fingertips, spread apart the securing clip at each end of the memorymodule slot until the memory module pops up. **3** Slide and remove the memory module from the memory-module slot.

NOTE: If the memory module is difficult to remove, gently ease the memory module back and forth to remove it from the slot.

CAUTION: To prevent damage to the memory module, hold the memory module by the edges. Do not touch the components on the memory module.



GUID-74047A37-7618-4FC3-8768-7B6A31495EB9

Status

Released

## Replacing the memory module

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-32C750AB-60D0-4A3A-9FE9-CF69AB3BAB27
Status	Released
Procedure	

- 1 Align the notch on the memory module with the tab on the memory-module slot and insert the memory module into the memory-module slot.
- 2 Press the memory module down until it clicks into place.



Post-reauis	ites
Status	Released
Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

Replace the <u>right-side cover</u>.

GUID-386CBA0B-93A8-4910-8394-48CEEC6AEE60

Status

Released

## Removing the front I/O-panel

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-6504958B-E9AE-45B7-8C36-250B50B118C4
Status	Released
Prerequisites	

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>front cover</u>.

Identifier GUID-00487A2E-EE48-49F4-9AAD-636BBBD2A7D5

Status

Released

### Procedure

- **1** Disconnect the front-audio cable from the system board.
- 2 Disconnect the USB 2.0 cable from the system board.
- **3** Disconnect the media-card reader cable from the system board.

**4** Disconnect the USB 3.0 cable from the system board.



**5** Remove the two screws (M3x5) that secures the front I/O panel to the chassis.

6 Pull out the front I/O panel along with the cables, through the front of the computer.



GUID-A8A1636E-383F-4859-AA91-CA545C7341DF

Status

Released

# Replacing the front I/O-panel

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-E3670601-85A3-4326-BDDC-85F92EA43468
Status	Released
Procedure	

- 1 Slide the front I/O panel into the front I/O panel bay through the front of the computer.
- 2 Replace the two screws (M3x5) that secures the front I/O panel to the chassis.
- **3** Connect the front-audio cable, USB 2.0 cable, USB 3.0 cable and media-card reader cable to the system board.

Identifier GUID-20BB6126-46D1-491E-A5CF-F259EFDC85F9 Status Released

### Post-requisites

- 1 Replace the <u>front cover</u>.
- 2 Replace the <u>right-side cover</u>.



GUID-1328A5E6-93D4-47C3-BD7C-DC41AE7FEBB5

Status

Released

## Removing the logo board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-6504958B-E9AE-45B7-8C36-250B50B118C4
Status	Released
Prerequisites	

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>front cover</u>.

Identifier GUID-167D3989-93A4-419C-BA84-78147C93F6BB

Status

### Procedure

1 Disconnect the logo-board cable from the logo board.

Released

2 Disconnect the two screws (M3x5) that secures the logo board to the chassis.

**3** Remove the logo board from the chassis.



GUID-5D4718A2-DEBB-4ABC-9F1F-7E0853060193

Status

Released

## Replacing the logo board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-B9ACF42E-3D66-433F-AD31-F54B96224D31
Status	Released
Procedure	

- 1 Align the logo board with the slot on the chassis and replace the two screws (M3x5) that secures the logo board to the chassis.
- 2 Connect the logo-board cable to the logo board.

tifier GUID-20BB6126-46D1-491E-A5CF-F259EFDC85F9

us

Released

### Post-requisites

- 1 Replace the <u>front cover</u>.
- 2 Replace the <u>right-side cover</u>.

GUID-4AE1D4BE-B8A9-400E-BCB8-B327BA228587

Status

Released

# Removing the front-panel light board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/regulatory\_compliance</u>.

Identifier	GUID-6504958B-E9AE-45B7-8C36-250B50B118C4
Status	Released
Prerequisites	
1 Remove the ri	ght-side cover.

2 Remove the <u>front cover</u>.

Identifier	GUID-D4DE9476-2C10-44F7-8B64-7BB8D038B1CC
Status	Released
Procedure	

#### Procedure

1 Disconnect the front panel light-board cable from the system board.

2 Remove the front panel light-board cable from the routing guides on the chassis.



- **3** Press the tab and disconnect the front light bar cable from the logo board.
- **4** Remove the screw (M3x5) that secures the front panel light-board to the chassis.

**5** Remove the front panel light-board from the chassis.

Del



GUID-A8335674-D604-4255-AABC-E12C2241F994

Status

Released

# Replacing the front-panel light board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-D1748F4F-A4A8-4987-BCA0-CD438F74F7ED
Status	Released

#### Procedure

- 1 Align the front panel light-board cable to the slot on the chassis.
- 2 Replace the screw (M3x5) that secures the front panel light-board to the chassis.
- **3** Connect the front panel light-board cable to the logo board.
- **4** Route the cables through the routing guides on the chassis and connect the front panel light-board cable to the system board.

Identifier	GUID-20BB6126-46D1-491E-A5CF-F259EFDC85F9
Status Post-requis	Released

- 1 Replace the <u>front cover</u>.
- 2 Replace the <u>right-side cover</u>.

GUID-1C25F362-25CF-40CD-8A9B-2B98FB94F5FC

Status

Released

## Removing the solid-state drive



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.



CAUTION: Solid-state drives are fragile. Exercise care when handling the solid-state drive.



CAUTION: To avoid data loss, do not remove the solid-state drive while the computer is in sleep or on state.

Prerequisites	
Status	Released
Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE

Remove the right-side cover.

 Identifier
 GUID-F2146D9F-F2E2-4CB2-B5CE-0E257EBF58A0

 Status
 Released

### Procedure

1 Locate the solid-state drive slot on the system board.



**2** Remove the screw (M2x3.5) that secures the solid-state drive to the system board.

**3** Slide and lift the solid-state drive off the system board.



GUID-792E5316-8EFA-4894-AE68-995416D3FD47

Status

Released

## Replacing the solid-state drive



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.



CAUTION: Solid-state drives are fragile. Exercise care when handling the solid-state drive.

GUID-6650A96E-1D81-465F-8F44-5C890DA79F44

Status

Released

### Procedure

1 Adhere the thermal pad to the system board.



NOTE: Applicable only for computers that are shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors.



- 2 Align the notch on the solid-state drive with the tab on the solid-state drive slot.
- **3** Insert the solid-state drive at a 45-degree angle into the solid-state drive slot.

4 Press the other end of the solid-state drive down and replace the screw (M2x3.5) that secures the solid-state drive to the system board.



Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released

#### Post-requisites

Replace the <u>right-side cover</u>.



GUID-4AF7A7F4-79DC-43F4-A4DF-63362F890FB6

Status

Released

## Removing the wireless card

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the right-side cover.

GUID-A96E6565-9F0D-49A4-9C31-203E1174655B

Status

Released

### Procedure

1 Locate the wireless card on the system board.



- 2 Remove the screw (M2x3.5) that secures the wireless card to the system board.
- **3** Lift the wireless-card bracket off the wireless card.
- **4** Disconnect the antenna cables from the wireless card.

5 Slide and remove the wireless card from the wireless-card slot.

Del



GUID-94E88AEC-6F12-4B0E-AA6A-B28D8E200225

Status

Released

## Replacing the wireless card

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-3F279C95-9087-4E9A-A39B-9BFAAC527D1C
Status	Released
Procedure	

- 1 Align the notch on the wireless card with the tab on the wireless-card slot and slide the wireless card at an angle into the wireless-card slot.
- 2 Connect the antenna cables to the wireless card.
- **3** Place the wireless-card bracket over the wireless card.

4 Replace the screw (M2x3.5) that secures the wireless card to the system board.



## Post-requisites

Replace the <u>right-side cover</u>.

GUID-30EEBC49-DE3E-4C3F-8226-86CE5F32F388

Status

Released

## Removing the coin-cell battery



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.



CAUTION: Removing the coin-cell battery resets the BIOS setup program's settings to default. It is recommended that you note the BIOS setup program's settings before removing the coin-cell battery.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the right-side cover.

GUID-7D9E6047-0114-44CF-B114-7332A7F15AF4

Identifier Status

Released

### Procedure

1 Locate the coin-cell battery on the system board.



2 Using a plastic scribe, pry the coin-cell battery out of its socket.


GUID-5E22F4A0-F01F-4522-8155-BE22A8CA6E5F

Status

Released

## Replacing the coin-cell battery

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-3B0C543D-78BF-49F1-86D8-3EE8B3A25B47
Status	Released
Procedure	

Insert the coin-cell battery into the battery socket with the positive side facing up, and snap the battery into place.

Status	Released
Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

### Post-requisites

Replace the <u>right-side cover</u>.

GUID-7E6BEE2D-7C06-4C03-9249-AC21E7E6D309

Status

Released

# Removing the 3.5-inch hard drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Identifier	GUID-7F30ABD3-B403-45CF-B222-2B673D46B2E5
Status	Released
Procedure	

- 1 Disconnect the power cable from the hard drive.
- 2 Disconnect the data cable from the hard drive.
- **3** Remove two screws (6-32UNCx3.6) that secure the hard-drive assembly to the side-chassis.

4 Lift the hard-drive assembly out of the slot on the side-chassis.



- **5** Remove the four screws (6-32UNCx3.6) that secure the hard-drive bracket to the hard drive.
- 6 Lift the hard drive off the hard-drive bracket.



GUID-3D8BE5D4-4E0C-4F44-80AA-09DA16493D7B

Status

Released

# Replacing the 3.5-inch hard drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Status	Released
Identifier	GUID-CD781F95-A833-4011-A61B-F2786319DE00

## Procedure

- 1 Place the hard drive in the hard-drive bracket.
- 2 Align the screw holes on the hard drive with the screw holes on the hard-drive bracket.
- **3** Replace the four screws (6-32UNCx3.6) that secure the hard-drive bracket to the hard drive.
- 4 Slide the hard-drive assembly into the slot on the side-chassis and replace the two screws (6-32UNCx3.6) that secure the hard-drive assembly to the side-chassis.
- **5** Connect the data cables and the power cables to the hard drive.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisites	

Replace the right-side cover.



GUID-98B8DA6D-EA14-47F7-86D4-91DF5D12C560

Status

Released

# Removing the 2.5-inch hard drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Dragadura	
Status	Released
Identifier	GUID-BB07406A-E079-4F1E-BD71-24FA04117D50

#### Procedure

- **1** Disconnect the power cable from the 3.5-inch hard drive.
- **2** Disconnect the power cable from the 2.5-inch hard drive.
- **3** Disconnect the data cable from the 3.5-inch hard drive.
- **4** Disconnect the data cable from the 2.5-inch hard drive.
- **5** Remove the screw (6-32UNCx3.6) that secures the hard-drive assembly to the side-chassis.



6 Lift the hard-drive assembly from the side-chassis.





- 7 Remove the four screws (M3x3.5) that secure the hard-drive bracket to the hard drive.
- 8 Lift the hard drive off the hard-drive bracket.



GUID-B83E85DF-CF65-40DB-AD70-4C901CB1BC1A

Status

Released

# Replacing the 2.5-inch hard drive

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Status	Released
Procedure	

- 1 Place the hard drive in the hard-drive bracket.
- 2 Align the screw holes on the hard drive with the screw holes on the hard-drive bracket.
- **3** Replace the four screws (M3x3.5) that secure the hard-drive bracket to the hard drive.
- **4** Slide the hard-drive assembly into the slot on the side-chassis and replace the screw (6-32UNCx3.6) that secures the hard-drive assembly to the side-chassis.
- **5** Connect the data cables and the power cables to the hard drive.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisites	

Replace the right-side cover.



GUID-FAA962E5-AD4D-4E85-BCA3-D99993D9AFD2

Status

Released

## Removing the fan

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Dreedure	
Status	Released
Identifier	GUID-E14A124C-43A2-478E-B5DC-FE3245374CF5

#### Procedure



## NOTE: Note the orientation of the fan while removing the so that you can replace it correctly.

1 Remove the system-fan cable from the system board.

**2** Pull the system fan to release it from the rubber grommets on the chassis and remove the fan from the chassis.



GUID-2596AFC0-F1E8-4A0E-A603-7D2CFE582ECE

Status

Released

# Replacing the fan

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-F76DD993-EC46-4DFD-B23A-8474FC549B7A
Status	Released
Procedure	

- 1 Align the slots on the system fan with the rubber grommets on chassis.
- **2** Route the rubber grommets through the slots on system fan and pull the rubber grommets until the fan snaps into position.
- **3** Connect the system-fan cable to the system board.

 Identifier
 GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

 Status
 Released

Post-requisites

Replace the right-side cover.

GUID-B4F677A5-AC31-4D04-888C-5BEF42FDA20E

Status

Released

## Removing the graphics card

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in Before working inside your computer. After working inside your computer, follow the instructions in After working inside your computer. For more safety best practices, see the Regulatory Compliance home page at www.dell.com/ regulatory\_compliance.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the right-side cover.

Identifier	GUID-B2389986-C5D2-4C99-840E-3C92575612C4
Procedure	Released

### IUCEUUI

- 1 Remove the screw (6-32UNCx3.6) that secures the graphics card to the chassis.
- 2 Push the securing tab on the PCIe slot away from the graphics card, grasp the card by its top corner, and ease it out of the slot.

**3** Lift the graphics card off the computer.



Identifier	GUID-E739510C-F979-4B0F-9E14-4A3F7E8D4237
Status	Released
Procedure	

#### Only with computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors

1 Remove the two screws (6-32UNCx3.6) that secures the graphics-card bracket to the chassis.

2 Lift the graphics-card bracket off the chassis.



- **3** Press the tab and disconnect the graphics-card cable from the graphics card.
- **4** Remove the two screws (6-32UNCx3.6) that secures the graphics card to the chassis.
- **5** Push the securing tab on the PCle slot away from the graphics card, grasp the card by its top corner, and ease it out of the slot.

6 Lift the graphics card off the computer.



GUID-B39A6E88-5BE8-4905-936B-086878866EBD

Status

Released

# Replacing the graphics card

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-C9649708-F58C-4617-9929-7882603C8259
Status	Released
Procedure	

- 1 Align the graphics card with the slot on the chassis.
- 2 Align and place the graphics card into the slot on system board and press down firmly until the graphics card snaps into place.
- **3** Replace the screw (6-32UNCx3.6) that secures the graphics card to the chassis.

Identifier GUID-18E03B03-9F85-4F4B-BCF8-AFD70DA271BA

Status

Released

## Procedure

#### Only with computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors

- 1 Align the graphics card with the slot on the chassis.
- **2** Align and place the graphics card into the slot on system board and press down firmly until the graphics card snaps into place.
- **3** Replace the two screws (6-32UNCx3.6) that secure the graphics card to the chassis.
- **4** Connect the graphics-card cable to the graphics card.

- 5 Align the tab on the graphics-card bracket to the slot on the chassis.
- 6 Align the screw holes on the graphics-card bracket to the screw holes on the chassis and replace the two screws (6-32UNCx3.6) that secures the graphics-card bracket to the chassis.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisites	

Replace the right-side cover.

GUID-9D88E0F2-A7B3-454C-8EB2-7822ECA4EA27

Status

Released

## Removing the processor fan

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Identifier	GUID-488387E0-AF3A-4711-9113-9E8895697E69
Status	Released
Procedure	

1 Disconnect the processor-fan cable from the system board.

2 Lift the release-lever on the heat sink.



**3** Press the lever and release it from the securing tabs on both sides of the processor.

4 Lift the processor fan and heat-sink assembly off the system board.



- **5** Remove the four screws (M3x7.26) that secures the processor fan to the heatsink assembly.
- 6 Lift the processor fan from the heat-sink.



GUID-2FF685C4-775F-4421-B5A2-1A756F240756

Status

Released

## Replacing the processor fan

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-84145110-4A74-43A6-95CA-83E96419C571
Status	Released
Procedure	

- 1 Align the screw holes on the processor fan with the screw holes on the heat sink.
- 2 Replace the four screws (M3x7.26) that secure the processor fan to the heat sink.
- **3** Align the processor fan and heat-sink assembly to the slot on the processor.
- **4** Align the slots on the release-lever with the securing tabs on both sides of the processor.
- **5** Pivot the release-lever backwards and secure processor fan and heat-sink assembly on the processor.
- 6 Connect the processor-fan cable to the system board.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisites	

Replace the <u>right-side cover</u>.

GUID-3AE08A92-614C-4411-90FB-8693F1DE2634

Status

Released

## Removing the heat sink



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.



WARNING: The heat sink may become hot during normal operation. Allow sufficient time for the heat sink to cool before you touch it.



CAUTION: For maximum cooling of the processor, do not touch the heat transfer areas on the heat sink. The oils in your skin can reduce the heat transfer capability of the thermal grease.

Identifier	GUID-BE0067B0-2DD1-42BA-902C-2A99D7A3DC07
Status	Delegend

#### Status

Released

#### Prerequisites

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the processor fan.

GUID-B04B35C9-1A98-465B-97C0-92FEC835BEE6

Status

Released

## Procedure

After performing all the above steps, you are left with the heat sink.



GUID-69332260-F504-4C70-A535-1E11124CC185

Status

Released

## Replacing the heat sink



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.



CAUTION: Incorrect alignment of the heat sink can damage the system board and processor.



NOTE: The original thermal grease can be reused if the original system board and heat sink are reinstalled together. If either the system board or the heat sink is replaced, use the thermal pad provided in the kit to ensure that thermal conductivity is achieved.

Identifier	GUID-2947850A-CFD1-461E-B621-BB9E30219CF1
Status	Released
Procedure	

Place the heat sink on a clean and flat surface.

Identifier	GUID-EC650DC9-3B25-4A3A-A4CF-C2F7CD90E8D5
Status	Released
Post-requis	sites

- 1 Replace the processor fan.
- 2 Replace the <u>right-side cover</u>.



GUID-42E021FE-5B0C-47BB-9498-D96D8CF3292E

Status

Released

# Removing the processor-cooling assembly

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Prerequisite	es
Status	Released
Identifier	GUID-AECECAF7-686B-4CB5-978D-1B3C8E9C8840

#### Only with computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors

Remove the right-side cover.

 Identifier
 GUID-50C6DDF3-A2F9-4431-9104-D22FFF75260C

 Status
 Released

 Procedure

#### Only with computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors

- **1** Disconnect the fan cable from the system board.
- 2 Disconnect the processor-cooling assembly cable from the system board.
- **3** In sequential order (as indicated on the processor-cooling assembly), loosen the captive screws that secure the processor-cooling assembly to the system board.

4 Remove the screw (6-32UNCx3.6) that secures the fan to the chassis.



**5** Lift and release the fan from the chassis.

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6 Lift the processor-cooling assembly along with the fan off the system board.



GUID-CE8A03B5-BE37-480B-91AD-AD42D7FAEB6A

Status

Released

# Replacing the processor-cooling assembly

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

## Identifier GUID-72F84966-7F26-4E5E-A1AC-C50ED21CF66B

## Procedure

#### Only with computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors

- 1 Align the captive screws on the processor-cooling assembly with the slot on the system board.
- 2 In sequential order (as indicated on the processor-cooling assembly), tighten the captive screws that secure the processor-cooling assembly to the system board.
- **3** Align the tabs on the fan with the slots on the chassis and place the fan in position.
- **4** Replace the screw (6-32UNCx3.6) that secures the fan to the chassis.
- **5** Connect the processor-cooling assembly cable to the system board.
- 6 Connect the fan cable to the system board.



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Identifier	GUID-1CF3150A-86A6-458D-811B-51E0325C3D96
Status	Released

## Post-requisites

Replace the <u>right-side cover</u>.

GUID-54026723-901E-49A7-9E20-7404ECA98BFB

Status

Released

## Removing the processor

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-BE0067B0-2DD1-42BA-902C-2A99D7A3DC07
Status	Released
Prerequisit	es

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the processor fan.

GUID-4EBC7A31-BFBB-4CDF-95B1-EF2A6F53B380

Status

Released

## Procedure

**1** Locate the processor on the system board.



- **2** Press the release lever down and then push it away from the processor to release it from the tab.
- **3** Extend the release lever completely and open the processor cover.

**4** Lift the processor off the processor socket.





GUID-08EA64DA-0940-45B5-9DEF-7609F5E6BB53

Status

Released

## Replacing the processor



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.



CAUTION: If either the processor or the heat sink is replaced, use the thermal grease provided in the kit to ensure that thermal conductivity is achieved.



NOTE: A new processor ships with a thermal pad in the package. In some cases, the processor may ship with the thermal pad attached to it.

#### Identifier GUID-9D3E0464-50A1-4A5D-A720-B60D22F77512

Status

Released

## Procedure

1 Ensure that the release lever on the processor socket is fully extended in the open position.

CAUTION: The pin-1 corner of the processor has a triangle that aligns with the triangle on the pin-1 corner on the processor socket. When the processor is properly seated, all four corners are aligned at the same height. If one or more corners of the processor are higher than the others, the processor is not seated properly.

**2** Align the notches on the processor with the tabs on the processor socket and place the processor in the processor socket.



**3** When the processor is fully seated in the socket, pivot the release-lever down and place it under the tab on the processor cover.



Identifier	GUID-EC650DC9-3B25-4A3A-A4CF-C2F7CD90E8D5
Status	Released
Post-reaui	sites

1 Replace the processor fan.

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2 Replace the <u>right-side cover</u>.

GUID-1F397551-A024-4EA9-8C08-8B7FDE9D50D9

Status

Released

# Removing the power-supply unit

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisite	25

Remove the right-side cover.

Due e e du com	
Status	Released
Identifier	GUID-9CCC06C5-5DFE-4A5C-A3E2-52106D56F9FD

#### Procedure

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NOTE: Note the routing of the cables while removing the power-supply unit so that you can replace them correctly.

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NOTE: Remove the cables from the routing guides on the chassis to avoid potential damage to the cables.

NOTE: Disconnect the power cables from their extensions.

- **1** Disconnect the power cable from the optical drive.
- **2** Press the securing clip and disconnect the power-supply unit cable from the processor-power cable.
- **3** Press the securing clip and disconnect the power-supply unit cable from the system board.



Disconnect the power cables from the hard disks. 4



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NOTE: For computers with graphics card, disconnect the power cable from the graphics card.



Remove the four screws (6-32UNCx6.3) that secure the power-supply unit to 5 the chassis.

6 Press the clamp and slide the power-supply unit towards the front of the chassis and lift the power-supply unit, along with the cables, off the chassis.


GUID-CCFAEC7A-D969-4E76-B806-44830D484EDD

Status

Released

# Replacing the power-supply unit

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

#### Identifier GUID-19C93B2E-34F3-46F1-9900-4FB4EE3302B9

Status

Released

#### Procedure

- 1 Place the power supply on the chassis.
- 2 Slide the power-supply unit towards the back of the chassis until it snaps into place.
- **3** Align the screw holes on the power-supply unit with the screw holes on the chassis.
- **4** Replace the four screws (6-32UNCx6.3) that secure the power-supply unit to the chassis.
- **5** Route the power-supply unit cables through the routing guides on the chassis.
- 6 Connect the power cables to their extensions.
- 7 Connect the processor-power cable and system-board power cable to the system board.
- 8 Connect the power cables to the hard drives and optical drive.



NOTE: For computers with graphics card, connect the power cable to the graphics card.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisites	

Replace the <u>right-side cover</u>.

GUID-3F6153AE-D9C1-4062-B211-E93EC9AE091F

Status

Released

### Removing the top cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Identifier	GUID-8AE19C8D-3E07-48F6-8ACB-1D18934DABA2
Status	Released
Procedure	

1 Remove the screw (M3x5) that secures the top cover to the chassis.

2 Slide the top cover towards the backside of the chassis and remove the top cover from the chassis.



GUID-8C492B5B-B5ED-4E67-9666-D18E8041AFFB

Status

Released

# Replacing the top cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-EDE4C465-9C95-42A8-A19E-1746EAA9DCF1
Status	Released
Procedure	

- 1 Align the tabs on the top cover with the slots on the chassis.
- 2 Slide the top cover towards the front of the chassis and secure the top cover in place.
- **3** Replace the screw (M3x5) that secures the top cover to the chassis.

 Identifier
 GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

 Status
 Released

 Post-requisites

Replace the right-side cover.



GUID-E782B6FD-6208-4460-8AD1-2CF3F3D81247

Status

Released

# Removing the front bezel

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.

Ide	entifier	GUID-E59E0BC3-EB59-4428-B571-13DBE9E646AD
Status Released		Released
Ρ	Prerequisites	
1	- Remove the ri	aht-side cover
2	Remove the <u>fr</u>	ont cover.
3	Remove the <u>slim optical drive</u> .	
4	Remove the <u>front I/O panel</u> .	
5	Remove the logo board.	
6	Remove the <u>front-panel light board</u> .	
7	Remove the light bar.	
8	Remove the <u>top cover</u> .	
lde	entifier	GUID-609C00B7-4338-458A-A9EA-9ED7F2B0ACDC
St	atus	Released

### Procedure

1 Place the computer in the standing position and remove the 11 screws (M3x5) that secure the front bezel to the chassis.

2 Remove the front bezel from the chassis.

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GUID-60F23EC0-94F6-45C6-B6CD-17F914DA5206

Status

Released

# Replacing the front bezel

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-B853ADE3-B5F6-4FD6-B480-85F8D4F702BF
Status	Released
Procedure	

- 1 Align the front bezel to the slots on the chassis.
- 2 Replace the 11 screws (M3x5) that secure the front bezel to the chassis and place the computer with the side-chassis facing up.

Identifier GUID-A90586B5-61B4-4B52-8254-5580D6F717EE

Status

Released

#### Post-requisites

- 1 Replace the <u>top cover</u>.
- 2 Replace the <u>light bar</u>.
- **3** Replace the <u>front-panel light board</u>.
- 4 Replace the <u>logo board</u>.
- **5** Replace the <u>front I/O panel</u>.
- 6 Replace the <u>slim optical drive</u>
- 7 Replace the <u>front cover</u>.
- 8 Replace the <u>right-side cover</u>.

GUID-A35BD2D5-B3B3-4708-AF1C-D61C58B9F952

Status

Released

# Removing the power-button board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/regulatory\_compliance</u>.

Identifier	GUID-EAC5C624-90F9-4EC5-B1C4-09F36F7AFB3D
Status	Released
Prerequisites	
1 Remove the right	nt-side cover.

- 2 Remove the <u>front cover</u>.
- **3** Remove the <u>slim optical drive</u>
- 4 Remove the <u>top cover</u>.

Identifier	GUID-FDCE4B9E-5EFE-42A5-8C24-3DEB7EA5786D
Status	Released
Procedure	

**1** Disconnect the power-button cable from the system board.



2 Remove the power-button cable from the routing guides on the chassis.



**3** Press the tab on the power-button board to release the module from the top panel.

**4** Remove the power-button board along with its cable through the slot on the top panel.



GUID-FBA68EE4-1E13-4F28-9B84-362694B97060

Status

Released

# Replacing the power-button board

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Procedure	
Status	Released
Identifier	GUID-7B8622B6-1B04-4F8B-8562-2073F98222B5

- 1 Route the power-button board cable through the slot on the top panel.
- 2 Align and snap the power-button module into the slot on the top panel.
- **3** Route the power-button board cable through the routing guides on the chassis.
- 4 Connect the power-button board cable to the system board.

Identifier

GUID-83DC91C4-C1A4-4F8C-8645-FCB3A20EADC6

Status

Released

#### Post-requisites

- 1 Replace the <u>top cover</u>.
- 2 Replace the <u>slim optical drive</u>.
- **3** Replace the <u>front cover</u>.
- **4** Replace the <u>right-side cover</u>.

GUID-C93E16BC-C281-4F9C-BCD1-FBC4C1863FA6

Status

Released

### Removing the antenna

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-C3BA5FE1-0F96-455A-BC72-DFBA39E17E49
Status	Released
Prerequisites	

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>wireless card</u>.

Identifier	GUID-2D5B5663-E942-4CF0-A5B8-E18B188A66C0
Status	Released

#### Procedure



### NOTE: Note the routing and the colour of antenna cables while removing them so that you can replace them correctly.

- 1 Remove the screw (M3x5) that secures the antenna cables to the chassis.
- **2** Peel the tape that secures the antenna cables to the chassis.
- **3** Remove the screw (M3x5) and the tape that secures the antenna cables to the chassis.



**4** Remove the antenna cables from the routing guide on the chassis.



GUID-4EA9E50B-4962-4DF8-BA6D-D799E29ECAF9

Status

Released

# Replacing the antenna

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-4C48EE62-6322-4CE1-9AED-0A105C50228C
Status	Released
Procedure	

- 1 Align the antenna cables to the slots on chassis and adhere the antenna cables to the chassis.
- 2 Replace the two screws (M3x5) that secures the antenna cables to the chassis.
- **3** Route the antenna cables through the routing guides on the chassis.

Identifier GUID-4CA46303-07A4-4444-B1B8-0A56DC8859D1

Status

#### Post-requisites

- 1 Replace the <u>wireless card</u>.
- 2 Replace the <u>right-side cover</u>.



GUID-EC1A09DC-8665-444F-92B5-24F964CE49CE

Status

Released

# Removing the left-side cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE	
Status	Released	
Prerequisites		

Remove the right-side cover.

GUID-B13E9F61-4543-4701-A730-D2979868682C

Status

Released

#### Procedure



NOTE: For computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors, remove graphics card bracket before removing the left-side cover screws. For removing graphics card bracket, follow the procedure from step 1 to step 2 in "Removing the graphics card".

1 Remove the two screws (M3x5) that secure the left-side cover to the chassis.



2 Carefully turn over the computer.

Slide and lift the left-side cover off the chassis.



GUID-0FB2BC0B-3E46-4E18-94CD-B3BC995EA713

Status

Released

# Replacing the left-side cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in Before working inside your computer. After working inside your computer, follow the instructions in After working inside your computer. For more safety best practices, see the Regulatory Compliance home page at www.dell.com/ regulatory\_compliance.

Identifier	GUID-C8374410-0D12-442F-984E-202F35DCF26A
Status	Released
Procedure	

1 Align the tabs on the left-side cover with the slots on the chassis and snap the left-side cover to lock it in place.

NOTE: For computers shipped with AMD Ryzen 3/Ryzen 5/Ryzen 7 processors, replace graphics card bracket after replacing the left-side cover screws. For replacing the graphics card bracket, follow the procedure from step 5 to step 6 in "replacing the graphics card"

2 Replace the two screws (M3x5) that secure the left-side cover to the chassis.

Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC	
Status	Released	
Post-requisites		

Replace the right-side cover.



GUID-2EEB123D-D085-4BE8-994B-0F693D55ECE8

Status

Released

### Removing the bottom cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Prerequisites	

Remove the <u>right-side cover</u>.

Identifier	GUID-A1F6F6E1-1E4F-46EA-AF48-B5399B746AFB
Status	Released
Procedure	

### 1 Remove the three screws (M3x5) that secure the bottom cover to the chassis.

**2** Press the securing tabs to release the bottom cover from the slots on the chassis and slide to remove the bottom cover from the chassis.

**3** Slide and remove the bottom cover from the chassis.

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GUID-482EB960-4B34-4F58-8F2B-9B766EF21AB3

Status

Released

# Replacing the bottom cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-902BE708-7137-4430-AE4A-706257994C2E
Status	Released
Procedure	

- 1 Tilt the computer towards the front until the base is facing up.
- 2 Align the tabs on the bottom cover with the slots on the chassis and snap the bottom cover to lock it in place.
- **3** Replace the three screws (M3x5) that secure the bottom cover to the chassis.

 Identifier
 GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC

 Status
 Released

 Post-requisites

Replace the right-side cover.

GUID-21C23FE4-8B12-456E-B414-D67A0DEECEB4

Status

Released

### Removing the rear cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Ide	ntifier	GUID-7081090C-D0CB-4699-AD12-081D917CD697
Sta	tus	Released
Pr	erequisite	es
1	Remove the righ	it-side cover.
2	Remove the pov	ver-supply unit.
3	Remove the top	cover.
4	Remove the left-side cover.	
5	Remove the <u>bottom cover</u> .	
Ide	ntifier	GUID-BC638F05-4563-481E-8F50-71B45F32C327
Sta	tus	Released

#### Procedure

1 Remove the two screws (M3x5) that secures the top bracket to the chassis.



2 Lift the top bracket off the chassis.



**3** Place the computer with the left side-chassis facing up and release the slots on the rear cover from the tabs on the chassis and remove the rear cover from the chassis.



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GUID-51F6F052-95CC-40F8-98EC-1716F71D0367

Status

Released

### Replacing the rear cover

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> <u>regulatory\_compliance</u>.

Identifier	GUID-6B9C3CF4-AA72-46D5-B68E-7737582DA97A
Status	Released
Procedure	

- 1 Align the slots on the rear cover with the tabs on the chassis and snap the cover in place.
- 2 Align the screw holes on the top bracket with the screw holes on the chassis.
- **3** Replace the two screw (M3x5) that secures the top bracket to the chassis.

Identifier GUID-74EBB0A2-17BC-461C-B911-2A9DCFA42F67

Status

Palaaad

#### Post-requisites

- 1 Replace the <u>bottom cover</u>.
- 2 Replace the <u>left-side cover</u>.
- **3** Replace the <u>top cover</u>.
- **4** Replace the <u>power-supply unit</u>.
- **5** Replace the <u>right-side cover</u>.

GUID-B54497E8-5AD5-4FF9-AD4A-F32FDBEDE1E8

Status

Released

### Removing the system board



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.



NOTE: Your computer's Service Tag is stored in the system board. You must enter the Service Tag in the BIOS setup program after you replace the system board.



NOTE: Replacing the system board removes any changes you have made to the BIOS using the BIOS setup program. You must make the appropriate changes again after you replace the system board.

NOTE: Before disconnecting the cables from the system board, note the location of the connectors so that you can reconnect the cables correctly after you replace the system board.

# Identifier GUID-E6943172-97C4-4EC4-8377-A7C8664CB572

#### Prerequisites

- 1 Remove the <u>right-side cover</u>.
- 2 Remove the <u>memory module</u>.
- **3** Remove the <u>solid-state drive</u>.
- 4 Remove the <u>wireless card</u>.
- **5** Remove the <u>graphics card</u>.
- 6 Remove the processor fan.
- 7 Remove the processor.



#### GUID-80367465-E2A4-4906-BF94-933743B9C3D5

Status

Released

#### Procedure

### NOTE: Note the routing of all cables while removing the system board so that you can replace them correctly.

- 1 Disconnect the front-audio cable from the system board.
- 2 Disconnect the fan cable from the system board.
- **3** Disconnect the processor-power cable from the system board.
- **4** Press the securing clip and disconnect the power-button board cable from the system board.
- **5** Press the securing clip and disconnect the power-supply unit cable from the system board.
- 6 Disconnect the USB 2.0 cable from the system board.
- 7 Disconnect the USB 3.0 cable from the system board.
- 8 Disconnect the optical-drive power cable from the system board.
- **9** Disconnect the 3.5-inch hard-drive data cable from the system board.
- **10** Disconnect the 2.5-inch hard-drive cable from the system board.

**11** Disconnect the USB 3.1 Type-C port cable from the system board (applicable only for computers shipped with AMD R3/R5/R7 processors).



**12** Remove the eight screws (6-32UNCx6.3) that secure the system board to the chassis.

**13** Lift the system board and remove it from the chassis.



GUID-67274E98-E2F1-4B7B-A903-F38BA6B62028

Status

Released

# Replacing the system board



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> <u>working inside your computer</u>. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.



NOTE: Your computer's Service Tag is stored in the system board. You must enter the Service Tag in the BIOS setup program after you replace the system board.



NOTE: Replacing the system board removes any changes you have made to the BIOS using the BIOS setup program. You must make the appropriate changes again after you replace the system board.

Identifier	GUID-F12384DA-5A8B-4529-A93B-4618502A5B4A
Status	Released
Procedure	

- 1 Align the system board with the slots on the chassis and place the system board in position.
- **2** Replace the eight screws (6-32UNCx6.3) that secure the system board to the chassis.
- **3** Route the front-audio cable, fan cable, processor-power cable, power-button board cable, power-supply unit cable, USB 2.0 cable, USB 3.0 cable, optical-drive power cable, hard-drive cables, and USB 3.1 Type-C port cable (optional) through their routing guides and connect the cables to their respective connectors on the system board.



GUID-1E08DD0D-42A6-4266-AFAD-CCB9A7374FD9

Status

Released

### Post-requisites

- 1 Replace the processor.
- 2 Replace the processor fan.
- **3** Replace the <u>graphics card</u>.
- **4** Replace the <u>wireless card</u>.
- **5** Replace the <u>solid-state drive</u>.
- 6 Replace the <u>memory module</u>.
- 7 Replace the <u>right-side cover</u>.

GUID-7C4079DF-9FF4-48AC-A162-4A939A8B2557

Status

Released

# **BIOS setup program**

Identifier	GUID-81F87C9E-449F-4237-AD63-AA5CB955CC91
Status	Released
BIOS overview	

The BIOS manages data flow between the computer's operating system and attached devices such as hard disk, video adapter, keyboard, mouse, and printer.

Identifier	GUID-1432A924-49E9-4080-961D-2AFBDAF42039	
Status	Released	
Entering BIOS setup program		

#### 5 11 5

- **1** Turn on (or restart) your computer.
- **2** During POST, when the DELL logo is displayed, watch for the F2 prompt to appear, and then press F2 immediately.
  - NOTE: The F2 prompt indicates that the keyboard is initialized. This prompt can appear very quickly, so you must watch for it, and then press F2. If you press F2 before the F2 prompt, this keystroke is lost. If you wait too long and the operating system logo appears, continue to wait until you see the desktop. Then, turn off your computer and try again.

Status

#### Released

#### **Clearing Forgotten Passwords**



WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u>regulatory\_compliance.

Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
Status	Released
Duovo autolatao	

Prerequisites

Remove the <u>right-side cover</u>.

Identifier	GUID-2F14952B-BE39-4941-8BD5-065AABB0149F
Status	Released

#### Procedure

- 1 Remove the jumper plug from the password jumper-pins.
- 2 Turn on your computer and wait until the operating system is completely loaded.
- **3** Shut down your computer.

**4** Replace the jumper plug in its original location.



Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
Post-requisit	tes

Replace the right-side cover.

 Identifier
 GUID-E5107AD9-2ECB-42E5-AEAF-04C85BDC3117

 Status
 Released

### **Clearing CMOS Settings**

WARNING: Before working inside your computer, read the safety information that shipped with your computer and follow the steps in <u>Before</u> working inside your computer. After working inside your computer, follow the instructions in <u>After working inside your computer</u>. For more safety best practices, see the Regulatory Compliance home page at <u>www.dell.com/</u> regulatory\_compliance.



Status Released	Identifier	GUID-1631ACD3-92F3-4946-AEAD-FF882430ADEE
	Status	Released

#### Prerequisites

Remove the <u>right-side cover</u>.

Status	Released
Procedure	

- 1 Remove the jumper plug from the password jumper-pins (PSWD) and connect it to the CMOS jumper-pins.
- 2 Wait for 5 seconds and then replace the jumper plug to its original location.


Identifier	GUID-8242C53A-B8DC-4B1A-B0E1-4631712DC2AC
Status	Released
<b>D</b>	

#### Post-requisites

Replace the <u>right-side cover</u>.

Identifier

GUID-F5899359-C2E1-41C0-9663-4C79969506EB

Status

Released

# Flashing the BIOS

You may need to flash (update) the BIOS when an update is available or when you replace the system board. To flash the BIOS:

- 1 Turn on your computer.
- 2 Go to www.dell.com/support.
- 3 Click **Product support**, enter the Service Tag of your computer, and then click Submit.



NOTE: If you do not have the Service Tag, use the auto-detect feature or manually browse for your computer model.

- 4 Click Drivers & downloads  $\rightarrow$  Find it myself.
- 5 Select the operating system installed on your computer.
- 6 Scroll down the page and expand **BIOS**.
- 7 Click **Download** to download the latest version of the BIOS for your computer.
- 8 After the download is complete, navigate to the folder where you saved the BIOS update file.
- 9 Double-click the BIOS update file icon and follow the instructions on the screen.

Identifier

GUID-F80A08EC-BFDD-4599-ABAC-E9FCDB318C24

Status

Released

### Diagnostics

The following table provides the different LED states and what they indicate. **Table 2. LED states** 

Power LED state	Description	
Off	<ul><li>Hibernate or suspend to disk (S4)</li><li>Power is pff (S5)</li></ul>	
Solid Amber	Boot failure: This is a system fault error condition, including the power supply. Only the +5VSB rail on the power supply is working correctly.	
Blinking Amber	Boot Failure: The computer is receiving electrical power, and power supplied by the power supply is normal. A device might be malfunctioning or incorrectly installed. Refer to the table below for <b>Amber Blinking Pattern</b> diagnostics suggestion and possible failures.	
Solid White	System is in S0 state, the normal power state of a functioning machine.	
Blinking White	System is in a low power state, either S1 or S3. This does not indicate a fault condition.	

The computer POST (Power On Self Test) ensures that it meets the basic computer requirements and the hardware is working appropriately before the boot process begins. If the computer passes the POST, the computer continues to start in a normal mode. However, if the computer fails the POST, the computer emits a series of LED codes during the start-up. The system LED is integrated on the Power button. The following table shows different light patterns and what they indicate.



#### Table 3. Jumper settings

Jumper	Function	Operation
JMP1	Service mode	1 - 2 Short: Disable
		1 - 2 Open: Default
	Password	3 - 4 Short: Default
		3 - 4 Open: Clear
	CMOS	5 - 6 Short: Clear
		5 - 6 open: Default

Identifier

GUID-AF18382F-D265-43C2-85DA-28FFB5875F37

Status

Released

## Getting help and contacting Dell

### Self-help resources

You can get information and help on Dell products and services using these self-help resources:

#### Table 4. Self-help resources

Information about Dell products and services

Dell Help & Support app

Get started app

Accessing help

Online help for operating system

Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.

Learn about your operating system, See *Me and My E* setting up and using your computer, data support/manuals. backup, diagnostics, and so on.

In Windows search, type Help and Support, and press Enter.

www.dell.com/support/windows www.dell.com/support/linux

www.dell.com/support

See *Me and My Dell* at <u>www.dell.com/</u> <u>support/manuals</u>.





www.dell.com



### **Contacting Dell**

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.



NOTE: Availability varies by country and product, and some services may not be available in your country.



NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

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