



HP Docking Station

HP Advanced Docking Station

Maintenance and Service Guide

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September 2008

This guide is a troubleshooting reference used for maintaining and servicing the HP Docking Station and the HP Advanced Docking Station. It provides comprehensive information on identifying docking station features, components, and spare parts; troubleshooting problems; and performing disassembly procedures.

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Safety warning notice



WARNING: To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

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Product description

The HP Docking Station and HP Advanced Docking Station provide desktop convenience with full port replication capability in a space-saving design. The easy docking system provides port replication and cable management in one product. The advanced docking station also provides a SATA swappable bay and an ExpressCard slot.

HP Docking Station and HP Smart AC Adapter



HP Advanced Docking Station and HP Smart AC Adapter



The HP Docking Station and HP Advanced Docking Station are compatible with the following computer models:

- HP Compaq 4200 Series Tablet PCs
- HP Compaq 4400 Series Tablet PCs
- HP Compaq 6300 Series Notebook PCs
- HP Compaq 6510 Series Notebook PCs
- HP Compaq 6515 Series Notebook PCs
- HP Compaq 6530b Series Notebook PCs
- HP Compaq 6535b Series Notebook PCs
- HP Compaq 6710b Series Notebook PCs
- HP Compaq 6715b Series Notebook PCs
- HP Compaq 6720t Series Notebook PCs
- HP Compaq 6730b Series Notebook PCs

- HP Compaq 6735b Series Notebook PCs
- HP Compaq 6910 Series Notebook PCs
- HP Compaq 6930p Series Notebook PCs
- HP Compaq 7400 Series Notebook PCs
- HP Compaq 8200 Series Notebook PCs
- HP Compaq 8400 Series Notebook PCs
- HP Compaq 8510 Series Notebook PCs
- HP Compaq 8710 Series Notebook PCs
- HP Compaq 8910 Series Notebook PCs
- HP Compaq 9400 Series Notebook PCs

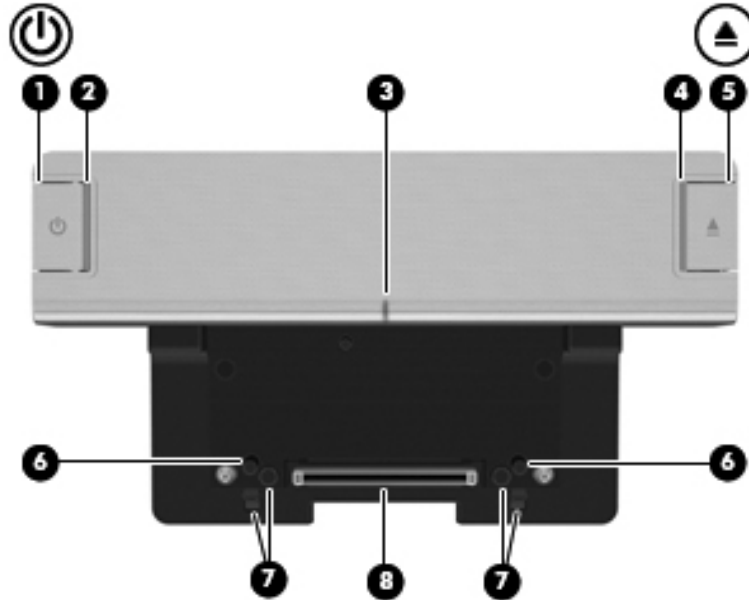
Features

- Integrated cable lock slot
- Security slot (for standard cable lock)
- HP Smart AC Adapter (charges docked computer)
- Lights (power, docking)
- SATA swappable drive bay (advanced docking station only)
- ExpressCard slot (advanced docking station only)
- Digital Visual Interface (DVI) is not supported on the following computer models:
 - HP Compaq 6100 Notebook PCs
 - HP Compaq 6300 Notebook PCs
 - HP Compaq 6500 Notebook PCs
- Connectors:
 - Monitor stand port
 - VGA external monitor port
 - Serial port
 - Parallel port
 - Keyboard connector
 - Mouse connector
 - Audio-out (headphone) jack
 - Audio-in (microphone) jack
 - DVI external monitor port
 - RJ-45/Ethernet (network) jack
 - RJ-11 (modem) jack
 - Universal Serial Bus (USB) 2.0 ports
 - ◆ Docking station—USB 2.0 port
 - ◆ Advanced docking station—5 USB 2.0 ports
 - Powered USB port
 - Power connector

External components

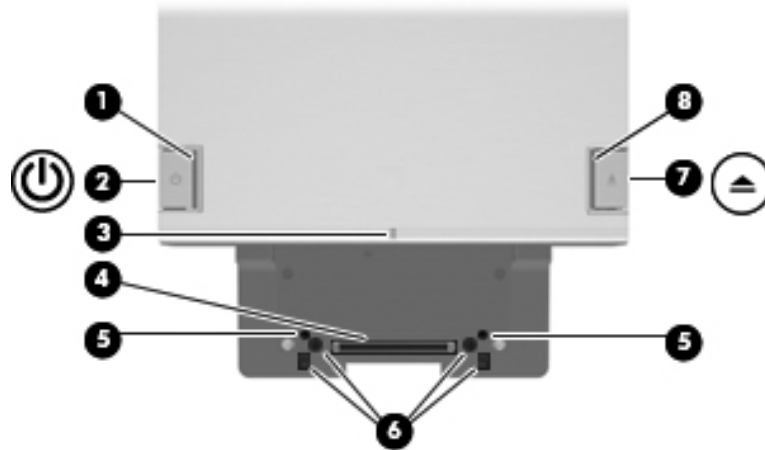
Top components

Docking station



Item	Component	Description
1	Power button	Turns on power to the computer.
2	Power light	Indicates the state of the computer and is turned on when the computer is turned on.
3	Visual alignment indicator	Helps you correctly align the computer when connecting it to the docking station.
4	Docking light	On: The computer is properly aligned.
5	Computer eject button	Ejects the computer from the docking station.
6	Docking posts (2)	Align and secure the computer for proper connection to the docking station.
7	Computer eject mechanisms (4)	Disconnect the computer from the docking station when you press the eject button.
8	Docking connector	Connects the computer to the docking station.

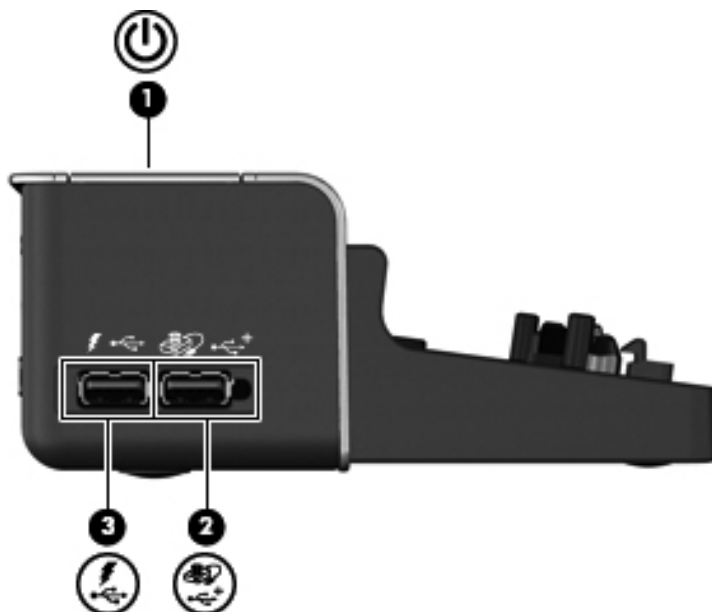
Advanced docking station





Item	Component	Description
①	Power light	Indicates the state of the computer and is turned on when the computer is turned on.
②	Power button	Turns on power to the computer.
③	Visual alignment indicator	Helps you correctly align the computer when connecting it to the docking station.
④	Docking connector	Connects the computer to the docking station.
⑤	Docking posts (2)	Align and secure the computer for proper connection to the docking station.
⑥	Computer eject mechanisms (4)	Disconnect the computer from the docking station when you press the eject button.
⑦	Computer eject button	Ejects the computer from the docking station.
⑧	Docking light	On: The computer is properly aligned.

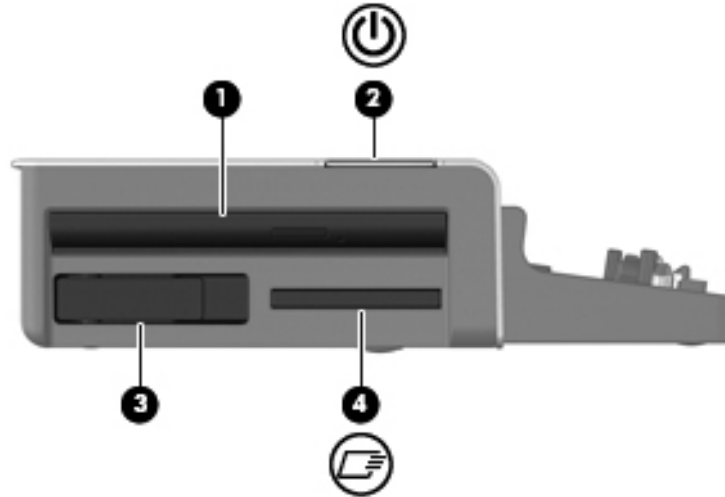
Left-side components


Docking station



Item	Component	Description
❶	Power button and power light	Turns on power to the computer. The light is turned on when the computer is turned on.
❷	Powered USB port	<p>Allows you to connect a SATA swappable bay optical drive or hard drive. Other USB hard drives can be connected to this port when the computer is off or undocked.</p> <p> This USB port turns off when the computer is off or undocked.</p>
❸	USB 2.0 port	<p>Allows you to connect and change USB devices even when the computer is undocked.</p> <p> If an optional USB hard drive is connected to this USB port, the hard drive will not turn off. This USB port does not turn off when the computer is off or undocked.</p>

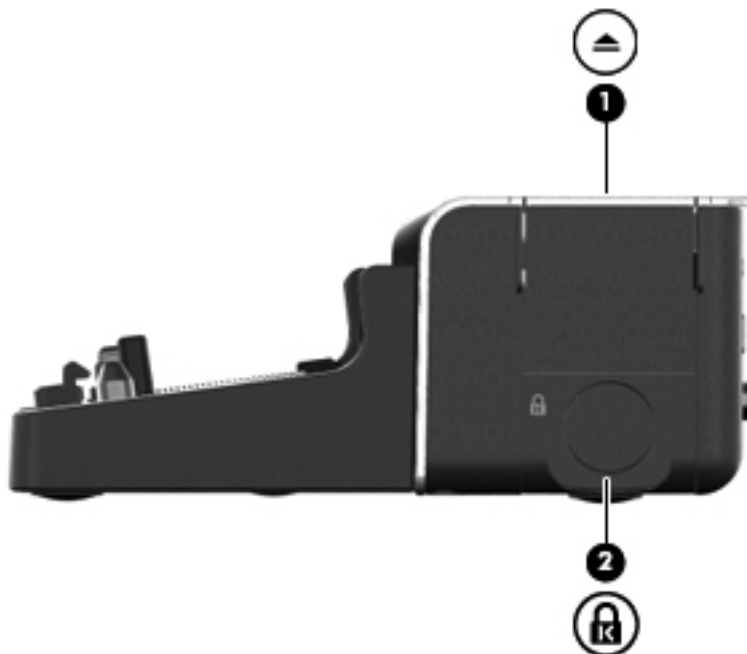
Advanced docking station




Item	Component	Description
❶	SATA swappable bay	Supports 12.7-mm drives such as hard drives and optical drives.  The SATA swappable bay is only compatible with select computer models.
❷	Power button and power light	Turns on power to the computer. The light is turned on when the computer is turned on.
❸	SATA swappable bay release lever	Releases the drive from the SATA swappable bay.
❹	ExpressCard slot	Allows you to connect ExpressCard devices to the docking station.

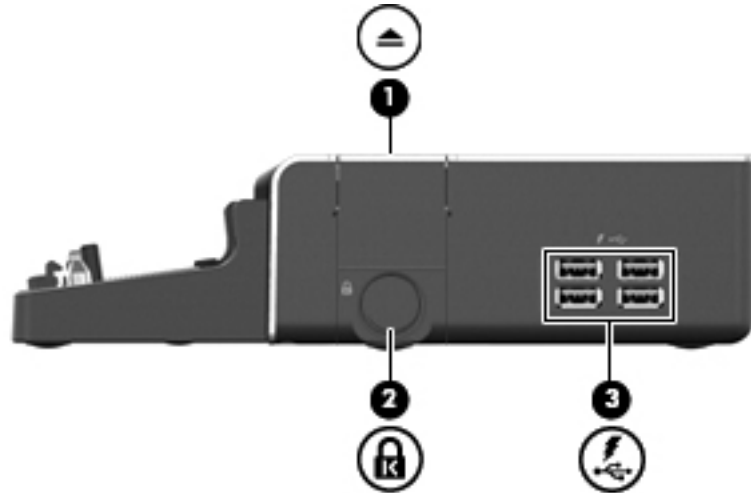
Right-side components



Docking station



Item	Component	Description
❶	Computer eject button and docking light	Ejects the computer from the docking station. The dock light is on when the computer is properly aligned.
❷	Integrated cable lock slot	Supports the HP/Kensington Cable Lock, which secures the docking station and connected computer.  A security cable is designed to act as a deterrent, but it may not prevent the computer or the docking station from being mishandled or stolen.

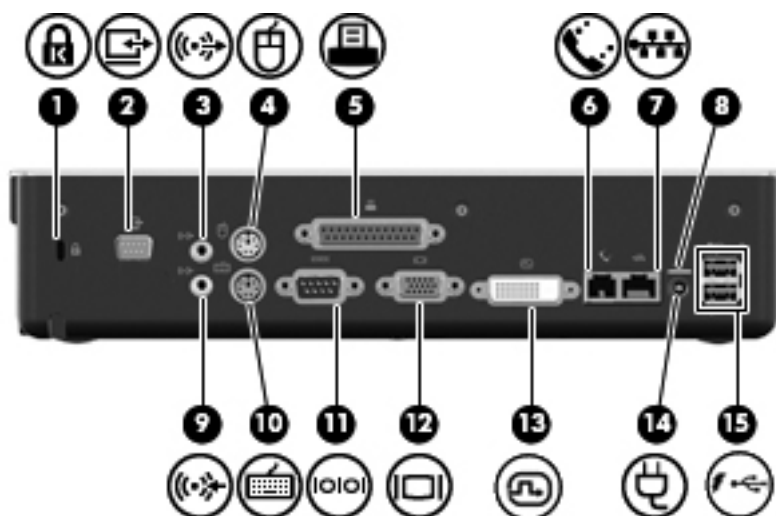
Advanced docking station




Item	Component	Description
❶	Computer eject button and docking light	Ejects the computer from the docking station. The docking light is on when the computer is properly aligned.
❷	Integrated cable lock slot	Supports the HP/Kensington Cable Lock, which secures the docking station and connected computer.  A security cable is designed to act as a deterrent, but it may not prevent the computer or the docking station from being mishandled or stolen.
❸	USB ports (4)	Allow you to connect and charge USB devices even when the computer is off or undocked.  If an optional USB hard drive is connected to any of these USB ports, the hard drive will not turn off. These ports do not turn off when the computer is off or undocked.

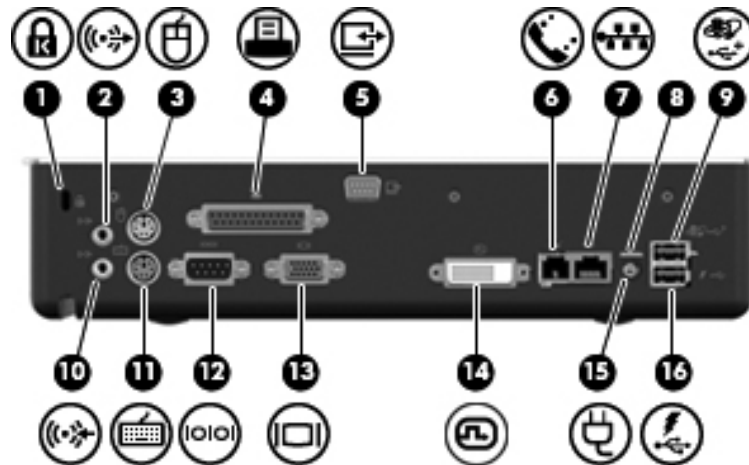
Rear components



Docking station



Item	Component	Description
❶	Security cable slot	Connects an optional security cable lock.  The security cable is designed to act as a deterrent, but it may not prevent the computer and the docking station from being mishandled or stolen.
❷	Monitor stand port	Connects an optional HP Monitor Stand to the docking station.
❸	Audio-out (headphone) jack	Connects an audio output device such as headphones or speakers.
❹	Mouse connector	Connects a PS/2 mouse.
❺	Parallel port	Connects a parallel device such as a printer.
❻	RJ-11 (modem) jack	Connects a telephone cable.
❼	RJ-45 (network) jack	Connects a network cable.
❽	Power light	Is turned on when the docking station is connected to AC power.
❾	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
❿	Keyboard connector	Connects a PS/2 keyboard.
⓫	Serial port	Connects a serial device such as a mouse or external keyboard.
⓬	VGA external monitor port	Connects a VGA monitor.
⓭	DVI external monitor port	Connects a DVI device such as a flat panel monitor.
⓮	Power connector	Connects the docking station to the AC adapter.
⓯	USB 2.0 ports (2)	Allow you to connect and charge USB devices even when the computer is off or unlocked.

Advanced docking station



Item	Component	Description
❶	Security cable slot	Connects an optional security cable lock.  The security cable is designed to act as a deterrent, but it may not prevent the computer and the docking station from being mishandled or stolen.
❷	Audio-out (headphone) jack	Connects an audio output device such as headphones or speakers.
❸	Mouse connector	Connects a PS/2 mouse.
❹	Parallel port	Connects a parallel device such as a printer.
❺	Monitor stand port	Connects an optional HP Monitor Stand to the docking station.
❻	RJ-11 (modem) jack	Connects a telephone cable.
❼	RJ-45 (network) jack	Connects a network cable.
❽	Power light	Is turned on when the docking station is connected to AC power.
❾	Powered USB 2.0 port	Allows you to connect an HP SATA swappable bay optical drive or hard drive. Other USB hard drives can be connected to this port even when the computer is off or undocked.  This USB port turns off when the computer is off or undocked.
❿	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
⓫	Keyboard connector	Connects a PS/2 keyboard.
⓬	Serial port	Connects a serial device such as a mouse or external keyboard.
⓭	VGA external monitor port	Connects a VGA monitor.
⓮	DVI external monitor port	Connects a DVI device such as a flat panel monitor.
⓯	Power connector	Connects the docking station to the AC adapter.
⓰	USB 2.0 port	Allows you to connect and charge USB devices even when the computer is off or undocked.

Design overview

This section presents a design overview of key parts and features of the docking station and advanced docking station. Refer to [Chapter 3, “Illustrated parts catalog,”](#) to identify replacement parts, and [Chapter 4, “Removal and replacement procedures,”](#) for disassembly steps.

The docking stations provide the following device connections:

- Monitor stand port, for use with the HP Monitor Stand
- DVI external monitor port
- Audio-out (headphone) jack
- Audio-in (microphone) jack
- RJ-11 (modem) jack
- RJ-45 (network) jack
- USB 2.0 ports (3 on the docking station, 6 on the advanced docking station)
- Powered USB 2.0 port
- Serial port
- Parallel port
- VGA external monitor port
- External keyboard connector

Troubleshooting



WARNING: Only authorized technicians trained by HP should repair this equipment. All troubleshooting and repair procedures are detailed to allow only subassembly-/module-level repair. Because of the complexity of the individual boards and subassemblies, do not attempt to make repairs at the component level or modifications to any printed wiring board. Improper repairs can create a safety hazard. Any indication of component replacement or printed wiring board modification may void any warranty or exchange allowances.

This chapter contains troubleshooting information for the docking station and advanced docking station. Carefully match the symptoms of the malfunction against the problem description in the troubleshooting tables to avoid a misdiagnosis. Refer to [Chapter 4, “Removal and replacement procedures,”](#) for all removal and replacement procedures.

Follow these guidelines when troubleshooting:

- Complete the recommended actions in the order in which they are given.
- When the problem is resolved, do not complete the remaining troubleshooting steps.

Troubleshooting checklist

When troubleshooting a problem, check the following list for possible solutions before replacing parts:

- Be sure that cables are connected properly to the suspected defective part.
- Be sure that all required device drivers are installed.


Problems and solutions

The following tables list possible problems, the possible cause of each problem, and the recommended solution.

Docking problems and solutions

Problem	Possible Cause	Solution
The computer rocks when mounted on the docking station.	The computer may be properly aligned but not fully seated or docked in the docking station.	<ol style="list-style-type: none"> 1. Press the eject button all the way in to eject the computer. 2. Lift the computer away from the docking station. 3. Realign the computer visual alignment indicator with the indicator on the docking station, and reconnect the computer. 4. Be sure the computer is properly aligned, seated, and fully docked by gently pressing down on the computer until you hear a click. <p>If accessories are attached, they should now work properly.</p>
The computer is turned on and properly docked, but the power light and dock light are not on.	Power cord is not plugged into either the docking station or the AC outlet.	Properly plug in power cord.
Some of the ports or connectors do not work, even though the docking light is turned on.	The computer may be properly aligned but not fully seated or docked in the docking station.	<ol style="list-style-type: none"> 1. Press the eject button all the way in to eject the computer. 2. Lift the computer away from the docking station. 3. Realign the computer visual alignment indicator with the indicator on the docking station, and reconnect the computer. 4. Be sure the computer is properly aligned, seated, and fully docked by gently pressing down on the computer until you hear a click. <p>If accessories are attached, they should now work properly.</p>

Undocking problems and solutions

Problem	Possible Cause	Solution
The computer will not disconnect from the docking station.	The connectors may be jammed.	<p>Press the eject button all the way in. If the computer does not disconnect, repeat this procedure to disconnect the computer.</p> <p> Apply excessive force may damage connector pins.</p>
	The cable lock is in the locked position.	Unlock the cable lock, and then disconnect the computer.

External device problems and solutions

Problem	Possible Cause	Solution
A new device is not recognized as part of the system.	The computer may be properly aligned but not fully seated or docked in the docking station.	<ol style="list-style-type: none"> 1. Press the eject button all the way in to eject the computer. 2. Lift the computer away from the docking station. 3. Realign the computer visual alignment indicator with the indicator on the docking station, and reconnect the computer. 4. Be sure the computer is properly aligned, seated, and fully docked by gently pressing down on the computer until you hear a click. <p>If accessories are attached, they should now work properly.</p>
	The device cable or power cord is loose.	<ul style="list-style-type: none"> ■ Be sure all cables are securely connected to the device and the docking station. ■ Be sure all power cords are securely connected to the device or docking station and to an AC outlet.
	The device was connected while the system was on.	Turn off the computer, turn on the device (if applicable), and then restart the computer.
	Cabling is incorrect.	Be sure the device cable is in the correct connector on the docking station.
	You may need to install device drivers on the computer.	Install drivers according to the device manufacturer's instructions.

Optical drive problems and solutions

Problem	Possible Cause	Solution
The system cannot read the optical disc.	The disc is not properly seated in the drive tray.	<ol style="list-style-type: none"> 1. Remove the disc and reseal it in the drive tray. 2. Close the drive tray.
	The disc is upside down.	<ol style="list-style-type: none"> 1. Remove the disc, turn it over, and reseal it in the drive tray. 2. Close the drive tray.
	The disc may be dirty or scratched.	Clean or replace the disc.
The system cannot eject the media tray.	The disc is not properly seated in the media tray.	Turn off the computer, and then manually eject the media tray.
	There is no power to the advanced docking station.	<ul style="list-style-type: none"> ■ Turn on power to the system, and then eject the disc. ■ Manually eject the disc.

SATA swappable bay problems and solutions

Problem	Possible Cause	Solution
The SATA swappable bay drive is not recognized.	The drive is not properly inserted in the SATA swappable bay.	Remove the drive, and then reinsert it.
	The drive was inserted while the power was on.	Restart the computer while the drive is in the SATA swappable bay.

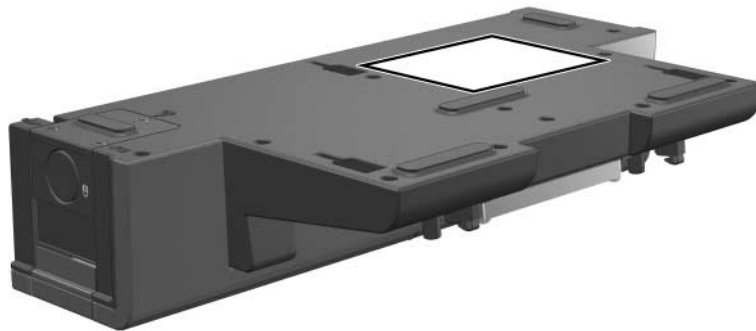
Illustrated parts catalog

This chapter provides an illustrated parts breakdown and a reference for spare part numbers and option part numbers.

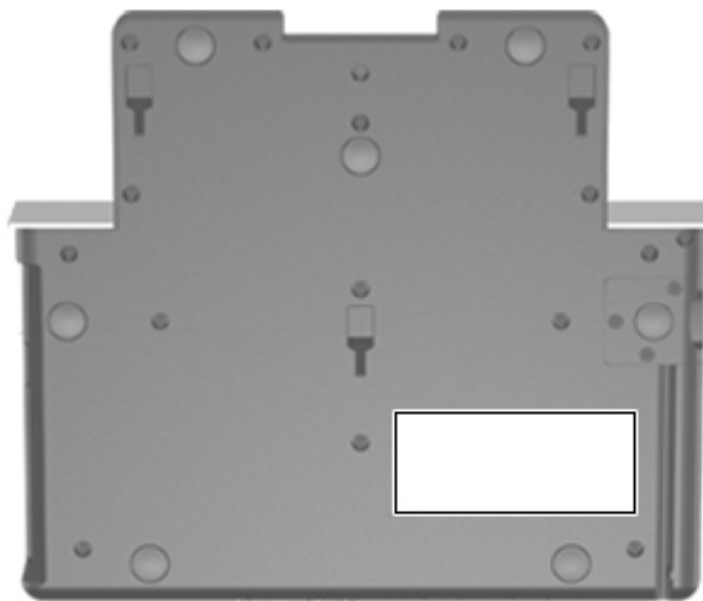
Serial number location

Docking station

When ordering parts or requesting information, provide the docking station serial number and model number located on the bottom of the base plate.

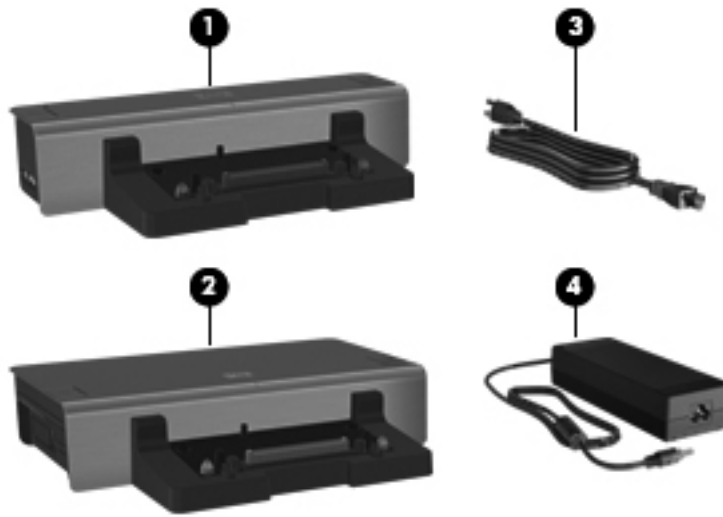


Advanced docking station



Major components

Docking station and advanced docking station



Item	Description	Spare part number
1	HP Docking Station (whole unit replacement)	483204-001
2	HP Advanced Docking Station (whole unit replacement)	483203-001
3	Power cord	
	For use in Australia	246959-011
	For use in Brazil	246959-201
	For use in Denmark	246959-081
	For use in Europe, Middle East, and Africa	246959-021
	For use in Italy	246959-061
	For use in Japan	246959-291
	For use in South Korea	246959-AD1
	For use in Switzerland	246959-AG1
	For use in the United Kingdom	246959-031
	For use in the United States	246959-001
4	HP Smart AC adapter	
	HP Smart AC Adapter, 180-W, PFC	463952-001
	HP Smart AC Adapter, 150-W, PFC	463954-001
	HP Smart AC Adapter, 120-W, PFC	463953-001

Sequential part number listing

Serial part number	Description number
246959-001	Power cord for use in the United States
246959-011	Power cord for use in Australia
246959-021	Power cord for use in Europe, the Middle East, and Africa
246959-031	Power cord for use in the United Kingdom
246959-061	Power cord for use in Italy
246959-081	Power cord for use in Denmark
246959-201	Power cord for use in Brazil
246959-291	Power cord for use in Japan
246959-AD1	Power cord for use in South Korea
246959-AG1	Power cord for use in Switzerland
463952-001	HP Smart AC Adapter, 120-W, PFC
463953-001	HP Smart AC Adapter, 120-W, PFC
463954-001	HP Smart AC Adapter, 150-W, PFC
483203-001	HP Advanced Docking Station
483204-001	HP Docking Station

Removal and replacement procedures

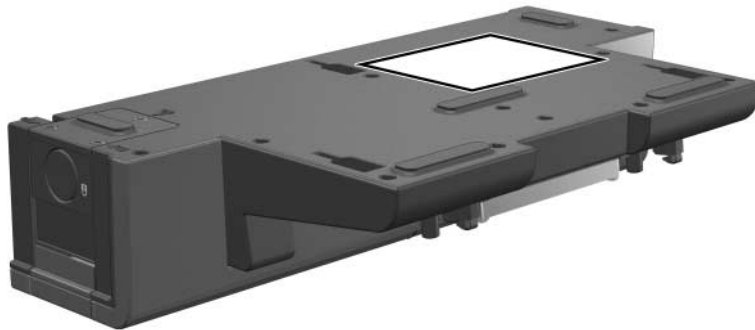
This chapter provides removal and replacement procedures.

You must loosen three captive screws (for the cable lock) when servicing either docking station.

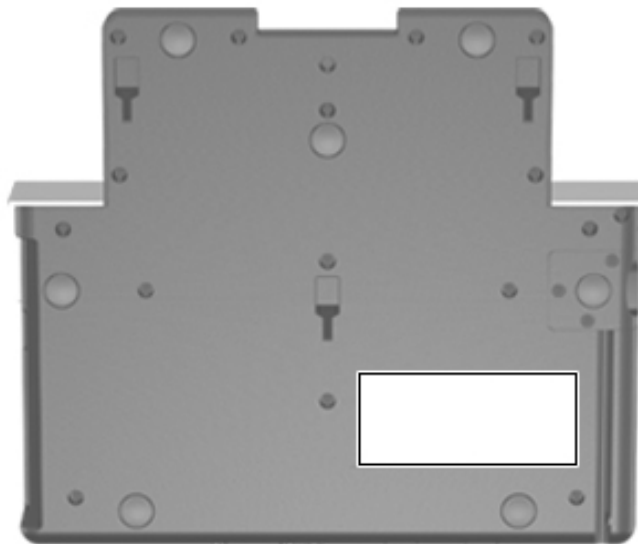
Serial number

Report the docking station serial number to HP when requesting information or ordering spare parts. The serial number is located on the bottom of the docking station.

Docking station




Advanced docking station



Preparing the docking station or advanced docking station for disassembly

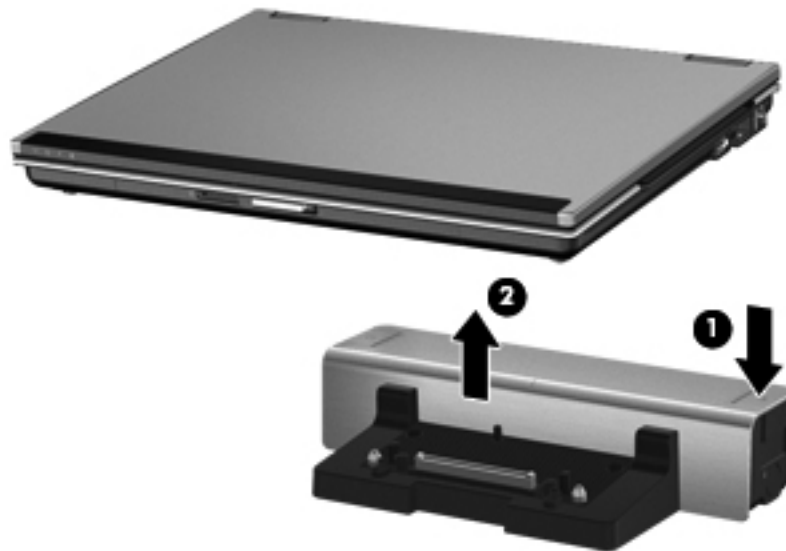
Perform the following steps before disassembling the docking station:

1. If a computer is connected to the docking station, close the computer. If you close the computer with the power turned on, the computer may enter Standby (Windows® XP) or the Sleep state (Windows Vista®).

 To resume operation after undocking, open the computer, and then press the power button.



2. Press the eject button **1**. The computer disconnects from the docking station.
3. Lift up the computer **2** and set it aside.



4. Disconnect all external devices connected to the docking station.
5. Disconnect the power cord from the docking station.

Installing the cable lock



Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.

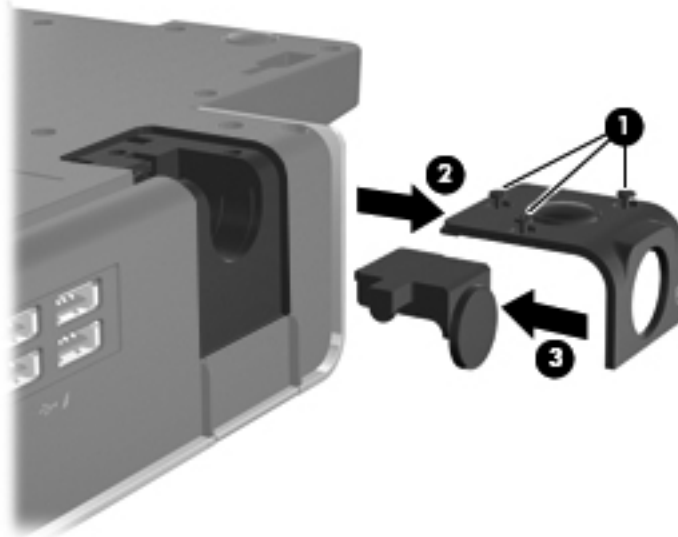
The cable lock allows you to secure the docking station and a docked computer, or the advanced docking station and a docked computer with a SATA swappable bay drive installed.

Install the cable lock into the integrated cable lock slot on the right side of the docking station, as shown in the following illustrations.

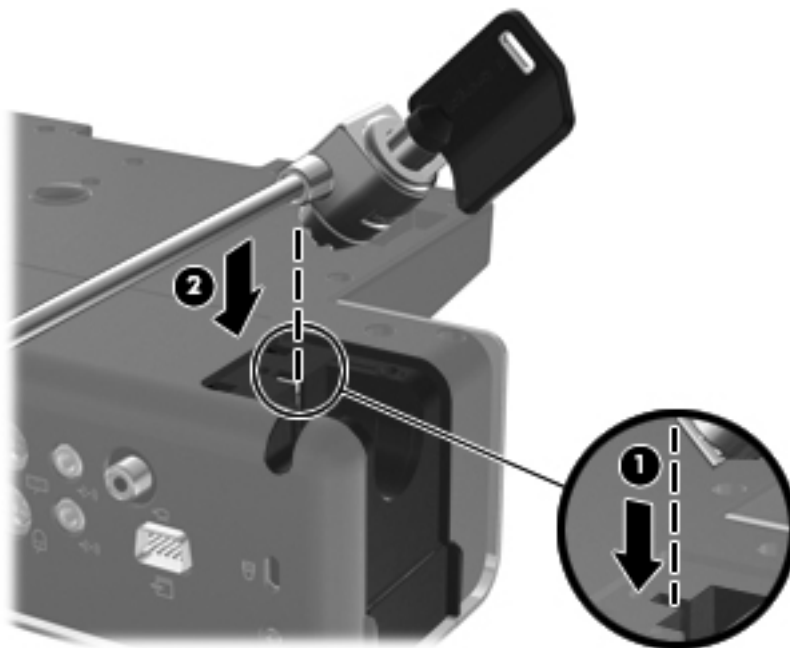


To install the cable lock:

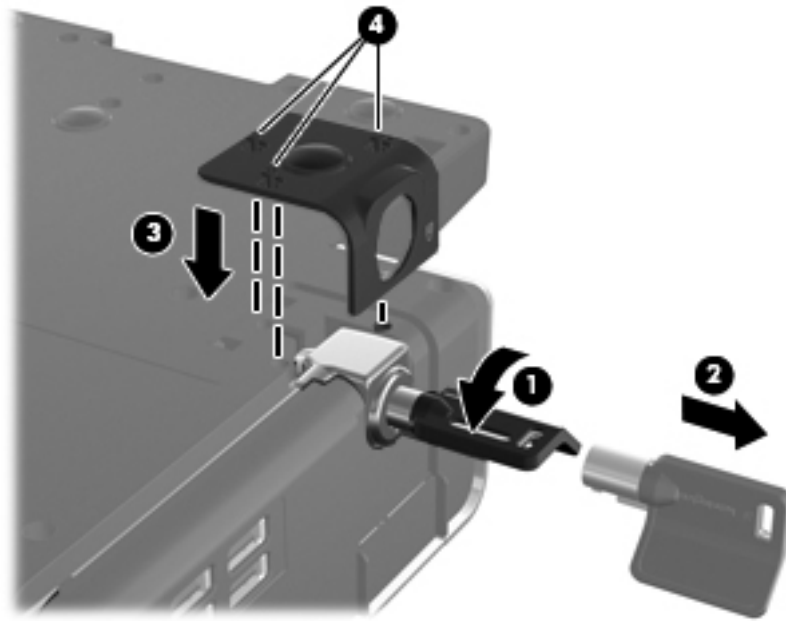
1. Loop the cable around a stationary object.
2. Turn the docking station upside down, and then loosen the three captive screws in the cable lock bezel ❶.
3. Remove the bezel from the docking station ❷, and then remove the bezel blank from the cable lock bezel ❸.



4. With the lock and key in the unlocked position and the t-bar on the back of the lock in the vertical position, insert the lock into the center groove in the cable lock slot in the docking station ❶.
5. Insert the cable into the recessed cable channel in the base of the docking station ❷.



6. Turn the key counterclockwise to lock ❶.
7. Remove the key from the lock ❷.
8. Reinsert the cable lock bezel onto the docking station ❸.
9. Tighten the three captive screws to secure the bezel ❹.



Docking station with cable lock installed



Specifications

This chapter provides physical and performance specifications.

Docking station

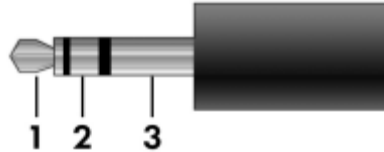
	Metric	U.S.
Dimensions		
Height	28.0 cm	11.02 in
Width	6.1 cm	2.40 in
Length	15.3 cm	6.02 in
Weight	1.02 kg	2.24 lb
Temperature		
Operating	10°C to 35°C	50°F to 95°F
Nonoperating	-10°C to 60°C	14°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	
Nonoperating	5% to 90%, 38.7°C (101.6°F) maximum wet bulb temperature	
Power Supply		
Rated Voltage	100 to 240 V	
Rated Current	2.5 A rms	
Line Frequency	50 - 60 Hz	
Altitude		
Operating	0 m to 3,048 m	0 ft to 10,000 ft
Nonoperating	0 m to 9,144 m	0 ft to 30,000 ft
Shock		
Operating	10 G, 11 ms, half-sine	
Nonoperating	60 G, 11 ms, half-sine	
Vibration		
Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate	
Nonoperating	1 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate	

Advanced docking station

	Metric	U.S.
Dimensions		
Height	28.0 cm	11.02 in
Width	6.1 cm	2.40 in
Length	24.3 cm	9.56 in
Weight		
	1.78 kg	3.93 lb
Temperature		
Operating	10°C to 35°C	50°F to 95°F
Nonoperating	-10°C to 60°C	14°F to 140°F
Relative humidity (noncondensing)		
Operating	10% to 90%	
Nonoperating	5% to 90%, 38.7°C (101.6°F) maximum wet bulb temperature	
Power Supply		
Rated Voltage	100 to 240 V	
Rated Current	2.5 A rms	
Line Frequency	50 - 60 Hz	
Altitude		
Operating	0 m to 3,048 m	0 ft to 10,000 ft
Nonoperating	0 m to 9,144 m	0 ft to 30,000 ft
Shock		
Operating	10 G, 11 ms, half-sine	
Nonoperating	60 G, 11 ms, half-sine	
Vibration		
Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate	
Nonoperating	1 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate	

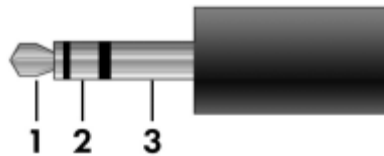
Connector pin assignments

Audio-in (microphone) jack



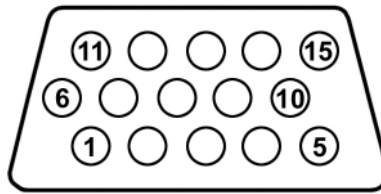
Pin	Signal
1	Audio signal in
2	Audio signal in
3	Ground

Audio-out (headphone) jack



Pin	Signal
1	Audio out, left channel
2	Audio out, right channel
3	Ground

External monitor port



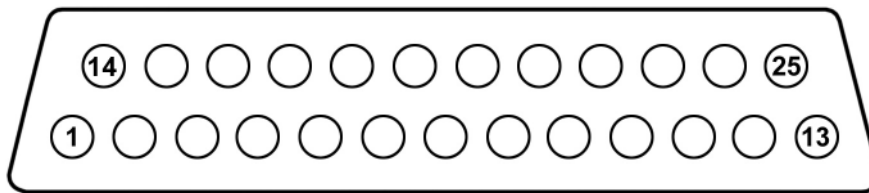
Pin	Signal
1	Red analog
2	Green analog
3	Blue analog
4	Not connected
5	Ground
6	Ground analog
7	Ground analog
8	Ground analog
9	+5 VDC
10	Ground
11	Monitor detect
12	DDC 2B data
13	Horizontal sync
14	Vertical sync
15	DDC 2B clock

Keyboard and mouse connectors



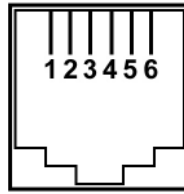
Pin	Signal
1	DATA
2	DATA
3	Ground
4	+5 VDC
5	CLK
6	CLK

Parallel port



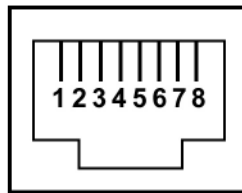
Pin	Signal
1	Strobe
2	Data bit 0
3	Data bit 1
4	Data bit 2
5	Data bit 3
6	Data bit 4
7	Data bit 5
8	Data bit 6
9	Data bit 7
10	Acknowledge
11	Busy
12	Paper end
13	Select
14	Auto linefeed
15	Error
16	Initialize printer
17	Select in
18	Ground
19	Ground
20	Ground
21	Ground
22	Ground
23	Ground
24	Ground
25	Ground

RJ-11 (modem) jack



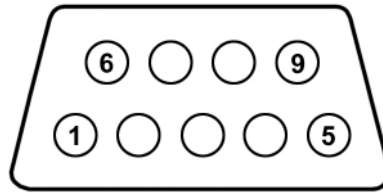
Pin	Signal
1	Unused
2	Tip
3	Ring
4	Unused
5	Unused
6	Unused

RJ-45 (network) jack



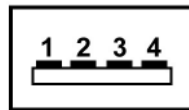
Pin	Signal
1	Transmit +
2	Transmit -
3	Receive +
4	Unused
5	Unused
6	Receive -
7	Unused
8	Unused

Serial port



Pin	Signal
1	Carrier detect
2	Receive data
3	Transmit data
4	Data terminal ready
5	Ground
6	Data set ready
7	Ready to send
8	Clear to send
9	Ring indicator

Universal Serial Bus port



Pin	Signal
1	+5 VDC
2	Data -
3	Data +
4	Ground

Power cord set requirements

The wide range input feature of the docking station permits it to operate from any line voltage from 100 to 120 volts AC or 220 to 240 volts AC.

The 3-conductor power cord set included with the docking station meets the requirements for use in the country or region where the equipment is purchased.

Power cord sets for use in other countries or regions must meet the requirements of the country or region where the docking station is used.

Requirements for all countries and regions

The requirements listed below are applicable to all countries and regions:

- The length of the power cord set must be at least 1.5 m (5.0 ft) and no more than 2.0 m (6.5 ft).
- All power cord sets must be approved by an acceptable accredited agency responsible for evaluation in the country or region where the power cord set will be used.
- The power cord sets must have a minimum current capacity of 10 amps and a nominal voltage rating of 125 or 250 V AC, as required by the power system of each country or region.
- The appliance coupler must meet the mechanical configuration of an EN 60 320/IEC 320 Standard Sheet C13 connector for mating with the appliance inlet on the back of the docking station.

Requirements for specific countries and regions

Country/region	Accredited agency	Applicable note number
Australia	EANSW	1
Austria	OVE	1
Belgium	CEBC	1
Canada	CSA	2
Denmark	DEMKO	1
Finland	FIMKO	1
France	UTE	1
Germany	VDE	1
Italy	IMQ	1
Japan	METI	3
South Korea	EK	4
The Netherlands	KEMA	1
Norway	NEMKO	1
The People's Republic of China	CCC	5
Sweden	SEMKO	1
Switzerland	SEV	1
Taiwan	BSMI	4
The United Kingdom	BSI	1
The United States	UL	2

1. The flexible cord must be <HAR> Type HO5VV-F, 3-conductor, 1.0-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.
2. The flexible cord must be Type SPT-3 or equivalent, No. 18 AWG, 3-conductor. The wall plug must be a two-pole grounding type with a NEMA 5-15P (15 A, 125 V) or NEMA 6-15P (15 A, 250 V) configuration.
3. The appliance coupler, flexible cord, and wall plug must bear a "T" mark and registration number in accordance with the Japanese Dentori Law. The flexible cord must be Type VCT or VCTF, 3-conductor, 1.00-mm² conductor size. The wall plug must be a two-pole grounding type with a Japanese Industrial Standard C8303 (7 A, 125 V) configuration.
4. The flexible cord must be Type RVV, 3-conductor, 0.75-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.
5. The flexible cord must be Type VCTF, 3-conductor, 0.75-mm² conductor size. Power cord set fittings (appliance coupler and wall plug) must bear the certification mark of the agency responsible for evaluation in the country or region where it will be used.

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