Lab - Install Internal Cables (Instructor Version)

**Instructor Note**: Red font color or gray highlights indicate text that appears in the instructor copy only.

# Introduction

In this lab, install the internal power and data cables in the computer.

# Recommended Equipment

* Computer with power supply, motherboard, drives, and adapter cards installed
* Hard disk drive data cable
* Optical drive data cable
* Antistatic wrist strap and antistatic mat
* Tool kit
* Motherboard manual

# Instructions

## Connect the motherboard power supply connector.

* + 1. Align the motherboard power supply connector to the socket on the motherboard.
    2. Gently press down on the connector until the clip clicks into place.

## Connect the auxiliary power connector.

* + 1. Align the auxiliary power connector to the auxiliary power socket on the motherboard.
    2. Gently press down on the connector until the clip clicks into place.

**Note**: This step is necessary only if your computer has an auxiliary power connector.

## Connect the internal disk drive power connectors.

Plug a power connector into the hard disk drive and the optical drive.

## Connect the video adapter card power cable.

Plug the PCIe power connector to the video adapter card.

**Note:** This step is necessary only if your video adapter card has a PCIe power connector.

## Connect the fan power connector.

Connect the fan power connector into the appropriate fan header on the motherboard.

**Note**: This step is necessary only if your computer has a fan power connector.

## Connect the hard disk data cable.

* + 1. Align and plug the hard disk drive data cable into the motherboard connector.
    2. Align and plug the other end of the hard disk drive data cable into the hard disk drive connector.

**Note**: SATA cables are keyed to ensure correct orientation with the connector.

## Connect the optical drive data cable.

* + 1. Align and plug the optical drive data cable into the motherboard connector.
    2. Align and plug the other end of the optical drive data cable into the optical drive connector.

## Verify the connections.

This lab is complete. Please have the instructor verify your work.

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