

# How to connect the laser diode in a CD DVD drive



## Overview

Solder to the GND pin first and solder the other end of the wire to the VLD anode (+ve), thus shorting the diode. This should make it safe for extraction and handling. When you are ready to connect the diode to your driver, you can then snip the shorting wire. Have you ever wondered how powerful that tiny little laser is in your CD, DVD, or BluRay drive/burner?

Well now you can. 6 mm which fits into the optics. The DVD ( "Digital Versatile Disk") has become commonplace. alone, "there are more than 100 million DVD playback devices including set top devices, portable players, DVD-ROM drives and. In this video, we show you how to extract the laser diode from an old CD-ROM and turn it into a working laser light. This allows setting up a control loop to drive the laser in a constant output power mode rather than just setting a constant current. (Shorting just once is NOT enough, short them, and leave them shorted until your diode is soldered There should also be a resistor soldered permanently across the driver to do this.

## Article Content

Powerful laser diodes from DVD-RW drive

Warning! Laser diodes from DVD-RW drive are emitting visible and invisible laser radiation and they are extremely dangerous! Their light can permanently damage

Laser diodes from CD-RW drives can cut and burn!

The voltage drop of 2.1 V does not mean that the diode should be connected to 2.1 V! Always use either current supply or a supply of higher voltage and a series resistance.

Testing Laser Diodes in CD Players | PDF | Diode

The document outlines techniques for testing the laser diode, focus/tracking actuators, and photodiode array when issues like intermittent playback,

Building a laser driver circuit?

Preferably use a diode tester that is voltage limited to maybe 5 V and current limited to a couple of mA. in a driver circuit for a laser I need to regulate not only voltage

CD player laser diode replacement

So, I was wondering if it is possible to replace the laser diode itself, not the entire pickup. The problem is, that after diode replacement the laser beam fails to locate in the middle of the

DIY DVD Laser Engraver Guide | PDF | Arduino | Power Supply

The document provides step-by-step instructions for converting DVD burners into a laser engraver by salvaging the laser diode, linear movement modules, screws, and plastic cases from DVD burners

DVD Formats and How to Drive Laser Diodes to Record and ...

The drivers consist of three input channels, a read channel with RF oscillator and two precision current amplifier outputs to drive the CD and DVD laser diodes for erasing and writing. The oscillating

A DIY laser engraver build using DVD and CD-ROM/writer

Summary of A DIY laser engraver build using DVD and CD-ROM/writer Summary (under 100 words): A DIY laser engraver built from two

Use multimeter to find the pinout of DVD laser diode. Read ...

In a nutshell this is how you test the pins of the laser diode. What you really want to do is rule out the one pin. This is the pin that has continuity to the body of the laser diode.

Sam's CD FAQ Components: HTML, Diagrams, Photos,

A Variety of Small Laser Diodes (lds.gif). Closeup of Typical Laser Diode (ldclose.gif).  
Closeup of Laser Diode from Sony KSS361A Optical Pickup (kssld.gif).

How to Make a Cutting Laser From a CD ROM

Making a cutting laser using the CD laser diode can be done using a plastic flashlight, a CD ROM disk drive and a few parts acquired from a laser supply store. A limited knowledge of how to use a

Current and Voltage need to Drive DVD Laser Diodes

I've extracted several laser diodes from DVD burners. I have no idea how much voltage or current I should run through these diodes with a proper heatsink. I've also extracted a 4 pin laser

Extracting a Laser Diode from a DVD Drive!

Took an old Rewritable DVD drive and extracted the red laser diode to use in a future project. Stay tuned for the next video and feel free to ask questions in the comments below!

About DVD/CD reader laser diodes : r/AskElectronics

For the first one, the laser diode happens to have a particularly high forward voltage and the resistance of your setup limited the current; the laser diode is fine. Note that the forward voltage and current

DVD to Laser Engraver : 12 Steps (with Pictures)

DVD to Laser Engraver: Hello everybody !! This is my very first instructable, i've been in this page for a couple of years now, and this is the first BIG project i tackle on,

Dissection of a Blu-ray Reader Assembly: The Laser Diode

The laser diode can actually contains three laser diodes emitting at 780, 660, and 405 nm (for CD, DVD, and Blu-ray, respectively). These are connected in a CCC

Removing a laser diode from a DVD

Let's see how we can remove a laser diode from such a device. All the possible infrared laser emitters including red and violet together with their optical systems are inside the drive's carriage.

An Introduction to Laser Diodes

An Introduction to Laser Diodes Learn about the laser diode, including package types, applications, drive circuitry, and some laser diode specifications.

Harvesting a Laser Diode From an Optical Drive

Harvesting a Laser Diode From an Optical Drive: Have you ever wondered how powerful that tiny little laser is in your CD, DVD, or BluRay drive/burner? Well now you can.

### Sciencing DVD-RW Laser Diodes

We'd use a coin-cell battery, but given how low the discharge currents are, the cap makes a great rechargeable alternative. The output of the photo

### How to Make a Powerful Laser from a CD ROM Drive

In this video, we show you how to extract the laser diode from an old CD-ROM and turn it into a working laser light.

### Dual-Output, Multimode CD-RW/DVD Laser-Diode Drivers

The MAX9483/MAX9484 high-performance, multimode, laser-diode drivers (LDDs) are designed for CD and DVD combination pickup heads. The drivers consist of three input channels, an RF oscillator,

### Figuring out the pinout of a Class 1 laser salvaged from

The laser from a DVD/CD RW drive is not class 1. The whole DVD/CD drive itself is class 1 when unopened, but the diode in side is class 3B.

### Testing Laser Diodes in CD Players | PDF | Diode | Laser

The document provides instructions for testing the optical pickup of MP3/CD/DVD players to identify front-end problems. It describes how to check the functioning of

### How to Make a Powerful Laser from a CD ROM Drive | Laser

In this video, we show you how to extract the laser diode from an old CD-ROM and turn it into a working laser light. This fun and educational project is perfect for hobbyists and anyone interested ...

### 41J Blog » Blog Archive » Playing with DVD RW Laser

I've always wanted to extract laser diodes from DVD RW and Blu ray drives and play around with them. After killing a few lasers I finally got one

### What I've Learned Fixing Optical Drives

When the drive is closed the spindle will engage and spin the disc, while the laser transport will move the laser pickup toward the center of the disc

## Contact Us

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