

DVD player laser diode modification



Overview

In this video, I'll show you how to extract a laser diode from an old DVD player/burner and turn it into a high-powered laser light! This DIY laser project is perfect for tech enthusiasts and hobbyists in Bangladesh. Let's take one apart and get it going as a stand alone laser. It can be used for future projects not limited to light shows, laser engraving, games and experiments. The sky is the limit. This application note describes the use and features of six available DVD formats: DVD-ROM, DVD-R, DVD-RW, DVD-RAM, DVD+R, and DVD+RW. It explains how recording and rewriting work, including the bit stream coding and recording/rewriting current waveforms required from the laser diodes. Ever cracked open an old DVD writer?

Inside, you'll find a laser diode, sled mechanism, and stepper motor, which coincidentally happen to be everything you need to build a pocket-sized laser engraver. This is only possible with. Sorry to have to tell you, the 'LCC' is what prevents the laser diode from burning out, by managing the voltage on the diode so that it draws a constant current. With DVD lasers, it's not just about personal eye safety, either.



Article Content

DVD Laser Diode Replacement

If you ever find out the manufacturer part number of the diode there are several internet sites and catalogues out there that can cross reference to another brand. I have used it for IC's,

Laser Project: Old DVD Player Laser Diode Identification

Hi, first time poster, I recently decided it would be fun little project to try and make a powerful laser out of an old RW DVD player I found. I extracted what I think are

Toshiba DVD player diode pinout | Laser Pointer Forums

I just took apart a Toshiba DVD/CDRW drive from a laptop. I haven't been able to find the pinout for this diode. It's rectangular with rounded edges and has 12(!) pins arranged as so x x x

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.

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

Laser Diode Specifications The laser diode can actually contains three laser diodes emitting at 780, 660, and 405 nm (for CD, DVD, and Blu-ray, respectively). These

How To Get the Laser Diode Out Of A DVD Burner

Its a different DVD Burner so you can compare the two 2. I have a better camera now so its nicer quality and you can see more 3. Less editing so you see exactly what I do Hope that clears it up!

CD player laser diode replacement

I am trying to restore some vintage cd players but I have problems with optical pickups (most of them are not available any more). So, I was wondering if it is possible to replace the laser

About DVD/CD reader laser diodes : r/AskElectronics

I salvaged an old DVD and a CD reader, among some other stuff, I made a stealthy drawer in my PC just big enough to hold my USBs and some other small stuff. I just looked what other stuff I could use

HOW TO MAKE LASER LIGHT FROM DVD

make laser light DVD OLD DRIVE how to make burning laser light at home without DVD old DVD player hack laser diode circuit laser diode circuit #DVDLASERLIGHT...

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

This application note describes the use and features of six available DVD formats: DVD-ROM, DVD-R, DVD-RW, DVD-RAM, DVD+R, and DVD+RW. It explains how recording and rewriting work,

5 Ways To Repurpose Old CD And DVD Players

Here are five interesting ways you can breathe life back into that old CD or DVD player of yours. Ever cracked open an old DVD writer? Inside, you'll

Powerful Burning Laser : 5 Steps (with Pictures)

We need to take off a laser diode from dvd driver, open it, find moving part with lenses, usually there is you'll see 2 diodes IR for CD and just red for DVD,

(#0111) How to Test Laser Diode from CD Player

How to Fix Any Portable CD Player — Common Issues & Easy Repairs Laser diode self-mixing: Range-finding and sub-micron vibration measurement

Sciencing DVD-RW Laser Diodes

If you've played around with laser diodes that you've scavenged from old equipment, you know that it can be a hit-or-miss proposition. (And if you

Using a DVD diode to create a mag-lite laser

From what I've read, most lasers have a light sensor built into them and require it for reliable operation. There is a very fine line between putting in too little current and getting no output, or putting in too

Using a DVD diode to create a mag-lite laser

So, I decided I wanted to make my very first foray into some basic electronics. I decided I was going to attempt to make a laser mag-lite, as per this hack here. The steps seem pretty straight forward, so I

How to Adjust the Output on a DVD Laser Diode with ...

How to safely use a 1kOhm potentiometer in a functional laser testing circuit. The three-terminal variable resistor wires are connected via the positive input to the driver and adjustable pin ...

How to Get the Laser Diode Out of a DVD

Removing the laser diode is the first step towards replacing it. While not a casual job, it will save money by making the DVD player ready to accept a new laser diode so that it can be used again.

Current and Voltage need to Drive DVD Laser Diodes

A dead laser diode will only have a dim output and from how many of these I've killed just with a soldering iron, they are very sensitive. Do your math, get a driver, heatsink your lasers

How to Make a Powerful Burning Laser From DVD-RW

How to make a powerful laser from DVD-RW that burns matches | DIY mini engraving laser ☐☐Homemade FIBER OPTIC LASER☐☐ POWERFUL burns, cuts and engraves, DIY homemade invention

DVD Laser Diode Used To Build A Laser Engraver

It's a laser engraver built from a DVD burner diode (translated). It turned out so well we wonder what other projects he's forgotten to tip us off about?

Diy Laser Burner Module From Old DvD"wr.

Diy Laser Burner Module From Old DvD"wr.: This tutorial is about how i make my own laser diode from old dvd writer. I need such a laser burner module for my cnc

building laser from dvd burner diode

Mr. Carlson's Lab - Why Add a Diode Across Relays For The Popcorn Nov 25, 2025
General Electronics Chat Replies 14 Views 598 Nov 27, 2025

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

If the diode is connected to any power source (even regulated) without resistance or current regulator, the diode will be destroyed! The laser diode has almost zero

I Built A DIY Laser Light Show Using Only A DVD Player

In this video, I'll show you how to extract a laser diode from an old DVD player/burner and turn it into a high-powered laser light! This DIY laser

LaserDisc player

The earliest players employed gas helium-neon laser tubes to read discs and had a red-orange light with a wavelength of 628 nm, while later solid-state players used

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