

How to connect the internal wiring of a carbon fiber frame



✓ TELECOM CABINET

✓ BRAND NEW ORIGINAL

✓ HIGH-EFFICIENCY

Article Overview

Use guide cables, dummy housings, and careful planning to route internal wiring safely through a carbon fiber frame.

Step 1: Prepare Your Frame and Tools

Before starting, ensure the frame is clean and free of debris to prevent friction or damage to cables and wiring . Gather the necessary tools: high-quality cables, housing, cable cutters, hex wrenches, a pick tool, and optionally a magnetic routing kit or guide cables . For hydraulic lines or electronic wires, consider using a dummy housing or liner to guide the actual cable through tight internal paths .

Step 2: Plan Cable Paths

Map out the entry and exit points for each cable or wire. Identify whether your frame uses full housing, interrupted housing, or sleeved routing . Avoid sharp bends that could increase friction or wear. Decide the order of installation, typically starting with the rear derailleur or brake lines, as these often require access through the bottom bracket or chainstay .

Step 3: Use Guide Cables or Dummy Housing

Insert a guide cable or dummy housing through the frame first. This acts as a path for the actual cable or wire . For hydraulic lines, tools like SRAM's threaded guide can a...

Article Content

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Carbon Fiber

This quick tech guide will show you step-by-step how to lay up carbon fiber the right way like a pro. [Click here for more](#)

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Is it possible to convert a frame to accepting internally ...

I imagine it is not that hard to drill the holes into the frame and file out a space for the right angle of insertion. Than it is a matter of

Sep 25, 2025

External carbon fiber vs. drilling holes in frame

External carbon fiber vs. drilling holes in frame I'm converting my favorite Blue Racing CX frame from mechanical to DI2 GRX

Sep 28, 2025

Internally routed cables

Hi, I am having difficulty finding a proper answer to a couple of questions I have regarding internal cable routing

Dec 08, 2025

how to put cables inside your carbon bike frame

Begin by inserting the cables into the designated entry point of the frame. Use a cable guide if necessary. A cable

Aug 24, 2025

Internal / Hidden Cable Stems, Headsets and Forks Resource

My main question is whether standard wired brake and shifting cables can be routed internally through a cockpit such

May 31, 2026

Is it possible to convert a carbon fibre bike with cables that ...

Is it possible to convert a carbon fibre bike with cables that run outside into an internal cable system by cutting a hole? I'd get it done

Dec 05, 2025

How to Bond Carbon Fiber | Permabond Engineering

What is the best adhesive to bond carbon fiber reinforced polymer? Learn which types of adhesives bond

Nov 12, 2025

Gravel Build and Internal Cable Routing : r/gravelcycling

Carbon fiber is not designed as a standard tubeset. It is designed as a complete frame, and the internal bosses added to it are

Aug 09, 2025

How to Make a Carbon Fibre Bike Frame From Start to Finish

Video tutorial showing the process of making a professional quality, race-ready carbon fibre bike frame from start to finish including

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Black magic: How carbon fibre bicycle frames are made

How exactly is carbon fibre used to make a frame? What are the different construction methods? Why is the term itself

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question for the carbon experts

I have a Colnago c50 and I'm a very big fan of a clean looking bike. So I was asking myself if it's possible to carefully drill openings

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How I Finally Mastered Internal Cable Routing on My Carbon Fiber ...

Proper cable routing bike techniques ensure safe internal cable installation on carbon frames, preventing damage and ensuring

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How to connect carbon fiber and metal components?

4 ways to connect carbon fiber to metal components 1. Gluing: Gluing is the most basic way to connect carbon fiber

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Carbon Fiber Part Fabrication Guide

If you're thinking of working with carbon fiber this guide should be a big help. The example is aimed at the automotive

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Ultimate Guide to Carbon Fiber Design and Application

Element 6 Composites specializes in carbon fiber design, analysis, prototyping, and manufacturing. We are experts in carbon fiber

Dec 23, 2025

Internal Cable on Any Bike Frame : 9 Steps (with Pictures ...

Internal Cable on Any Bike Frame: I bought this bike for 40 bucks, which is next to nothing, so I decided to personalize it: 1.

Nov 24, 2025

5 PRO Tricks: Internal Cable Routing HACKS for Carbon Frames

Stop wasting hours! ☐ Here are 5 battle-tested, professional hacks for dealing with the absolute headache ☐☐ of

Jan 31, 2026

Building WW Full-internally cable routed SuperX MY2017

As there are plenty of carbon fibres in this small cap, I was not worried about structural integrity at all. I cut a window

Mar 20, 2026

Question about carbon frame internal cabling : r/bicycling

Question about carbon frame internal cabling Hey everyone, I'm going through the process of building a bike for the first time, and I'm

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