

Bridge wheel seat or frame



Overview

The diamond frame consists of two triangles, a main triangle and a paired rear triangle. The main triangle consists of the head tube, top tube, down tube and seat tube. The rear triangle consists of the seat tube, and paired chain stays and seat stays. The head tube contains the headset, the bearings for the fork via its. In an integrated headset, cartridge bearings interface directly with the surface on the inside.

Key Takeaways

In bicycles, a bridge usually refers to a small tube connecting the seat stays or chainstays, while in railway vehicles, a bridge refers to the axle or bogie structure connecting wheels and supporting the vehicle.

Bicycle Frame Bridges

In bicycles, the bridge is a structural tube that connects either the seat stays or chainstays of the rear triangle of the frame. The seat stay bridge connects the two seat stays near the rear brake mount, while the chainstay bridge connects the chainstays closer to the bottom bracket or rear wheel. These bridges provide additional stiffness and strength, prevent frame flex, and sometimes serve as mounting points for brakes or fenders.

Improper wheel seating can cause the tire to rub against these bridges, especially in narrow frames or when the wheel is misaligned. Frame bridges are integral to the diamond frame design, which consists of a main triangle and a rear triangle. The rear triangle includes the seat tube, chainstays, and seat stays, with bridges enhancing rigidity and maintaining proper wheel alignment.

Railway Wheel or Axle Bridges

In railway vehicles, a bridge often refers to the axle bridge or bogie frame that connects the wheels and supports the vehicle body. The bogie axle bridge improves structural strength and rigidity, distributes stress evenly, and accommodates components like springs, brakes, and wheelsets. It is critical for stability, safety, and ride comfort, especially in narrow-gauge or low-floor designs.

The wheelset is mounted on the axle bridge, which may include axle heads, spring mounting seats, and brake discs. Proper design ensures that the wheels are correctly spaced, aligned, and capable of handling heavy loads while maintaining smooth operation. Key Differences

Feature	Bicycle Bridge	Railway Axle/Bogie Bridge
Function	Connects frame stays, adds stiffness, brake/fender mount	Connects wheels, supports vehicle, distributes load
Location	Rear triangle of frame	Bogie or axle assembly
Materials	Steel, aluminum, carbon	Steel or high-strength alloys
Issues	Tire rubbing if wheel misaligned	Misalignment affects stability and safety

Understanding the context is crucial: in bicycles, the bridge is part of the frame, while in railways, it is part of the wheel/axle system.

Both serve to enhance structural integrity and ensure proper alignment of wheels.

Article Content

Bicycle frame

OverviewFrame tubesVariationsFramesetFrame geometryFrame materialsButted tubingBraze-ons

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Dissecting The “Frame Rubbing” Problem – Rookiejournal

You can get the wheel true in the frame by using either the brake shoes (if the bike has rim brakes) or a set of zip-ties strapped around the seat stays and the seatstay bridge and use them as

The whys of bike tech: Construction methods and

Is there a functional reason to include stay bridges on a frame? Firstly, let me discuss the negatives of such bridges. Depending on the tire size,

NYT Connections Answers Today [Answer Archive & Past Games]

CONNECT - BRIDGE, JOIN, LINK, UNITE PARTS OF A BIKE - CHAIN, PEDAL, SADDLE, WHEEL BEST PICTURE WINNERS SINCE 2000 - CHICAGO, CRASH, GLADIATOR,

Frame with no seatstay or chainstay bridge?

I've found a rather nice-looking cyclocross frame on eBay which I'm considering buying to build into a wet-weather road bike. It's apparently a custom-built 531 steel frameset, but as the title

Rear mudguard bridge fitting

The "quick and dirty" method is to fit the bridge as normal, ignore the hole in the frame, and lash the bridge piece to the frame using a couple of zip ties instead. This actually works as well

A case study on geometry

As a rule, I don't install stay bridges on any of the frames I build. I will install one if I see that the shape of the stays has created a natural void that just begs for an additional curve.

Parts Of A Bicycle Explained: Comprehensive Guide To Your Bike

Every part of a bicycle explained — frame, drivetrain, wheels, brakes, cockpit. The complete bike anatomy reference for cyclists and home mechanics.

Breaking Down the Anatomy of the Bicycle

Connecting the front and rear triangles of the frame, the seat tube supports the seat post and saddle. Meanwhile, the down tube runs from the head tube to the bottom bracket, providing structural

Rear mudguard bridge fitting

For example frames with forward-facing dropouts are usually set up so that the wheel can slide an inch or so forwards without the mudguard fouling (so the wheel will come out) and this

removing seat stay bridge?

Singlespeed & Fixed Gear - removing seat stay bridge? - I've a really tight Duratec aluminium track frame, and realized the seat stay bridge is so tight a 23mm tire won't fit.

frame has no seat stay/brake bridge for rear fender mounting

Four holes in the fender, in the same way fenders are attached to the bridge on suspension forks. If you want to stand it off the junction, use some thick wall tubing and feed the cable ties through. Seems

Parts of a bridge: Everything You Need to Know about Bridges

Before you start building a bridge, it's important to understand the different parts of the structure and how they work together to support the bridge and hold up traffic and people above the

Breaking Down Essential Parts of a Bridge Structure [Term Guide]

Learn the complexities of bridge construction with this glossary of 20 common structural components used on bridges.

Chainstay/Seat stay braces

I have a 2007, 26", specialized MTB, that I'd like to convert to a "gravel bike" type thing. The biggest tire the frame can accommodate with a 700c rear wheel is 32mm. I'd PREFER to use a

Crane Wheel Selection Guide for Overhead and Bridge Cranes

Complete bridge crane wheel specification — service class, load calculation, tread profile, material, hardness, and axle configuration.

No Reserve: Eli Bridge Company Ferris Wheel Seat & Stand

This Ferris wheel seat was built for an Eli Bridge Company wheel and was refurbished under previous ownership. Details include yellow paint, multicolor decals, black leather upholstery,

Seat stays bridge pulling dropouts together

Hi, as when brazing in the SS bridge pulls dropouts together - I've heard, that some people put additional spacers to the axle, so it's not eg 142 but more so after the whole operation

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