

Instrument bridge spacing



Article Overview

Instrument bridge supports are typically spaced at regular intervals of 1.5 meters (5 feet) for stability, with adjustments based on load, tray type, and environmental conditions.

Recommended Support Spacing

For instrumentation and cable tray bridges, support spacing is generally determined by the weight of the cables, the type of tray, and the structural requirements. A common guideline is to install support brackets every 1.5 meters (approximately 5 feet) along horizontal runs to ensure stability and prevent sagging, particularly for long spans or heavy cable loads .

The distance between the centers of two adjacent support elements—also called the support spacing—ensures that the tray or bridge can safely carry the intended cable load without excessive deflection . For lighter loads or shorter spans, spacing may be increased slightly, while heavier instrumentation cables or long spans may require closer spacing or additional intermediate supports.

Factors Affecting Spacing

- **Cable Weight and Volume:** Heavier or densely packed cables require closer support spacing to prevent bending or structural stress .
- **Tray Type and Material:** Steel, stainless steel, or aluminum trays have different load capacities; manufacturers often provide maximum recommended spans. Plastic or coated trays may require shorter spacing due to lower rigidity.
- **Environmental Conditions:** High temperatures, humidity, or corrosive environment...

Article Content

Bridge string spacing question?

Doug, I use the Stew-Mac string spacing rule for both the nut and bridge holes, it is spaced out "logarithmically" I

String Spacing Rule for Guitar Bass Mandolin Banjo

Achieve Perfect String Spacing Without Guesswork The String Spacing Rule is an essential tool for luthiers and

Bridge (instrument)

In addition to supporting the strings and transmitting their vibrations, the bridge also controls the spacing

Useful Measurements

Bridge Placement Although the notches in the f-holes can be a good general suggestion for bridge

EquispacingCalculator

Most guitar makers will set the string slots both in nut and bridge so that it is the space between adjacent strings that is uniform, not

Bridge String Spacing Calculator | Instrument Layout Tool

Calculate string spacing for guitars and basses. Compare equal, edge, and center layout options. Build balanced layouts for reliable

Bridge Adjustment

To adjust string spacing, loosen the string slightly and lift it gently just in front of the bridge, then move the string wheel by turning it in

Violin, Viola, Cello Bridge Placement Guide

Learn proper violin, viola & cello bridge placement with our expert guide. Step-by-step

Equal vs. Proportional String Spacing

Equal vs. Proportional String Spacing by Carl Maltby is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike

String Spacing for Guitar: How Do You Check It?

MEASURE BOTH PICKUPS Measuring both pickups is very important. Depending on your bridge and nut, your

Guitar String Spacing: The Basics You Need To Know

Guitar string spacing is a crucial yet often overlooked aspect of guitar design that can significantly impact your playing experience. It

String spacing at the bridge question

On a standard Martin with 1-11/16" nut and 2-1/8" bridge spacing, there is a 3/16" expansion in string spacing from the

The Perfect Violin Bridge Position

Believe it or not, the violin bridge position matters a whole lot! The bridge itself helps transfer vibrations

Calculating Fret Positions

Since both the nut and bridge saddle can be slanted on a multiple scale length instrument, this calculator also

Useful Measurements

Although the notches in the f-holes can be a good general suggestion for bridge placement, they aren't always the best location on

Bridge Geometry Manual

Bridge Geometry Manual Publication No. FHWA-HIF-22-034 Infrastructure Office of Bridges and Structures

Setup and Adjustment for Optimal Sound

The height is adjusted to create the appropriate string clearance, allowing for comfortable playing without excessive buzzing. The

Violin Setup and Adjustments: Bridge, Soundpost, and

The bridge transfers string vibration to the body of the violin and determines string spacing,

How to calculate your bridge spacing

The bridge we are using in this example starts at 100mm and ends at 157mm. That means our string spacing is about

Tech Talk

There are various reasons you might want to measure your string spacing, but typically it's

What Is A Setup And Why Is It So Important?

Setup is the final step in the process of making string instruments. Our professional luthiers

Coursed Instrument nut and bridge spacing?

Does anyone know of any good "how-to" resources for determining proper spacing at nut

String Spacing at Bridge?

Any advice on string spacing at the bridge? 2-1/4 seems to be a common spacing for finger style guitars. I realize it's all

Home Bridge Fitting Specifications

It depends on the sound you are looking for, and it may take several different bridges to achieve what you want. The position, height

String Spacing at Bridge

String Spacing at Bridge Archtops Hope I'm not hijacking this thread but I have the same problem as Bruce and I've

Contact Us

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