

LOVE  
LYOURGUITAR   
**graph**tech®  
GUITAR LABS

# THE GRAPH TECH STORY

Over three decades ago, Dave Dunwoodie, Graph Tech's President, was mid-performance at a gig in his home town of Vancouver, Canada. Hitting the tremolo bar on his first Fender® Strat (he was a Gibson® man) during a guitar solo, he was immediately introduced to the problem of string binding on traditional guitar nuts. "I went to do my first 'wang' and went totally out of tune" Dave says. "I couldn't use the guitar for stage work at all". While gigging at night, he first worked at a retail guitar shop importing guitar parts, bodies and necks into Vancouver and putting together custom guitars for his customers. Later he left the store to start importing parts, bodies, necks, and set up a paint shop to supply music stores across Canada


Spurred on by the resurgence in popularity of tremolo guitars in the late 1970's, the need for pencil lead in the nut slots, and his own frustration, Dave began experimenting with a variety of composite guitar nuts designed to eliminate string binding. He engineered the world's first self-lubricating nut, a formula that is 500% slipperier than graphite. Years later Graph Tech Guitar Labs has become an institution, producing some of the industry's most innovative and reliable nuts, saddles, bridge pins, bridges and pickup systems.

Through patented methods and proprietary techniques, (over 50 patents and trademarks world-wide) Graph Tech has designed specific tone and performance enhancements that were once impossible to achieve. The result is an outstanding reputation for quality and rapid acceptance by guitar players. Dave's commitment has never wavered: "I've been playing guitar and in the guitar industry for pretty well my whole life, and the one thing I really want our company and our products to stand for is they do what we say they will do. For example, our String Saver Saddles really do drastically reduce string breakage.

Graph Tech products are factory installed world wide by Gibson®, Epiphone®, Fender®, Taylor®, Godin®, Ibanez®, Framus®, Warwick®, Hofner®, Riversong®, Kamaka®, Kepma®, Vintage®, Martin®, Kala®, Schecter®, Mahalo®, Tom Anderson®, Warmoth®, Kiesel®, Yamaha®, and many others.

What is the reaction from the players around the world? Week after week, customers write us unsolicited letters and e-mails saying this is the first product that they've ever bought that actually does what it says it would do (imagine that!).





Dave Dunwoodie  
Head Honcho

SOME OF THE MANUFACTURERS EQUIPPED WITH GRAPH TECH COMPONENTS

Agile

Aloha  
ukulele

ALUMINATI  
GUITAR CO.

AlumiSonic  
Made in USA

Asher  
GUITARS & LAP STEELS  
Handcrafted in California

AVALON GUITARS

BABICZ

Basone Guitars  
Custom pickups and repairs  
basoneguitars.com

Benincaso

Blackbird  
guitars

Boucher  
GUITARS

Breedlove

Carparella  
GUITARS

Córdoba

Caparison®  
GUITARS

CHAPMAN  
GUITARS

CHARVEL

CIARI TRAVEL  
GUITARS

Cole Clark  
Guitars

Cort

D'Angelico  
NEW YORK

Daemones  
\* Lutherie Infernus \*

DEAN  
GUITARS

DEAN ZELINSKY  
GUITARS

DG

Electra  
guitars

EMERALD  
BUILT IN CANADA

Epiphone®  
performance is our passion

ERNE BALL®

esoterik  
guitars

ESP

Faith

fano  
guitars

Fender

FERNANDES  
GUITARS

Flaxwood®  
FINE ELECTRIC GUITARS

Framus®  
TRADEMARK

FRET LIGHT®  
WIRELESS

FURER GUITARS  
TYLER  
SINCE 1991

G&L

Gibson

Gilmore  
GUITARS.ca

GYPSY ROSE  
DESIGNER GUITARS

HWS

Godin

GUILD

Hagstrom

KALO  
GUITARS

Höfner

HOHNER

Ibanez

iGuitar®  
Workshop

Indie  
GUITAR CO.

Inspector  
Russian Guitars

James Tausert  
CUSTOM GUITARS

JAMES TYLER  
JAMES TYLER  
TYLER  
JAMES TYLER  
JAMES TYLER  
JAMES TYLER

Jay Tusaer

Jackson

JJ

KALA  
- BRAND MUSIC CO. -

**KALOHA**



**Kanile'a Ukulele**



**KIESEL**  
CUSTOM GUITARS

**KLÖS**



**Laka**

**LANIKA**  
UKULELES

**L Benito**

**Lava**  
CUSTOM MODERN INSTRUMENTS

**LINE 6**

**Lowden**  
GUITARS

**LISL**  
instruments

**MAHALO**  
ukuleles

**Mama**

**Martin & Co.**  
EST. 1833  
AMERICA'S GUITAR

**Martin Booth**  
guitars

**MAYONES**  
GUITARS & BASSES

**McPherson**

**Michael Kelly**  
Guitar Co.

**MORRIS**

**Mule**  
RESONANTIC GUITARS

**Nashguitars**  
USA

**NIK HUBER**  
guitars

**Ovation**

**Rady**  
GUITARS

**RAGNARÖK**

**RAMUNDO**

**RainSong**

**RELISH**  
SWISS GUITARS



**Riversong**  
GUITARS

**ROSCOE**  
guitars

**S104**  
GUITARS

**SAMICK**  
Samick Music Corp.

**schecter**  
guitar research

**Seagull**

**Sivcak**  
BOLLER HANDMADE GUITARS

**Simon & Patrick**  
LUTHIER

**Stephallen**  
guitars

**STETSBAR**  
professional tremolo systems

**Suhr**

**ORTEGA**  
GUITARS • EST 1994



**Takamine**

**Taylor**  
QUALITY GUITARS

**TYDE**  
MUSIC

**th.mann**  
MUSIC IS OUR PASSION

**Timberline**  
GUITARS

**TOM ANDERSON**  
GUITARWORKS

**Valencia**  
Classical Guitar

**Veelah**  
GUITARS

**Vintage**

**voyage.air**  
your future is unfolding

**Warmoth**

**Warr** GUITARS

**Warwick**

**Washburn**  
GUITARS

**YAMAHA**

**Zebrawood**  
Guitars

**RATIO**<sup>®</sup>  
BALANCED-GEAR TUNING TECHNOLOGY

# RATIO TUNED MACHINE HEADS

"They are on my personal guitar. They're great, I can't believe no one had come up with this idea until now! (Ratio) Makes tuning effortless and easier!"

**JAMES VALENTINE**  
**MAROON 5**



● FAST.  
● PRECISE TUNING.  
EVERY STRING.

Simply the best tuning system for stringed instruments.  
A unique gear **RATIO** for each string



# WHAT IS RATIO?

RATIO is a patented multi-geared machine head system available for electric, acoustic, and bass guitars. On a RATIO equipped guitar or bass, all strings respond the same to any tuning adjustment. A full turn on a RATIO machine head is about one full tone for every string. Open tunings are amazingly fast, and tuning tweaks are much more intuitive and quick. For instance, if your electronic tuner says a string is flat by 10 cents, you quickly learn how much to turn the machine head to get back to pitch... and this adjustment would be the same for every string.



# HOW DOES IT WORK?

Each RATIO machine head has its own gear ratio, calibrated to its string core diameter, so every string responds the same to any tuning adjustment. The gear ratios range from 12:1 to 48:1, which means finer tuning on the thicker core strings and coarser tuning on the thinner core strings. No more overshooting the G string or twisting forever on the high E – just predictable, precise tuning, retuning and open tuning on every string.

RATIO heads are built to last, with triple-plated finishes and the finer gears made from hardened steel, so they stay smooth and tune precisely for years and years. RATIO machine heads are available in locking and non-locking options to fit most major acoustic and electric models in all configurations: 3+3, 6-in-line, 4+2, 7-in-line, 4+3, etc.

Players can choose from popular button styles: Classic, Contemporary, Contemporary Mini or Vintage - all with durable triple-plated finishes including chrome, gold, black or nickel.

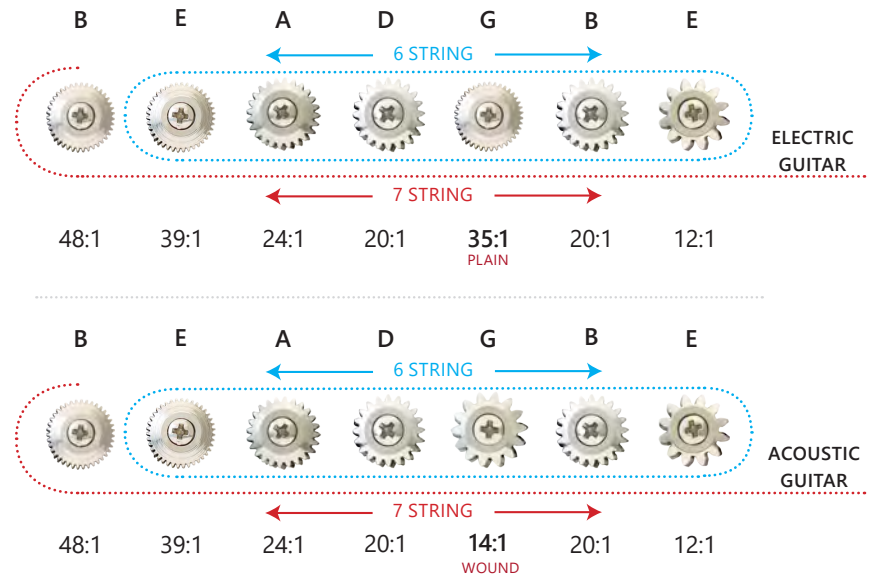
# HIGHLIGHTS

- Available in most headstock configurations
- Triple-plated Chrome, Gold, Nickel or Black finishes

# GUITAR GEAR RATIOS

STRING #	ELECTRIC	ACOUSTIC	PITCH
1	12:1	12:1	E
2	20:1	20:1	B
3	35:1	14:1	G
4	20:1	20:1	D
5	24:1	24:1	A
6	39:1	39:1	E
7	48:1	48:1	B

Simply the best tuning system for stringed instruments,  
a unique gear **RATIO** for each string



- A unique gear ratio for each string
- "Ratio" signature buttons
- Fits most headstock sizes
- Two pin mounting system





**WHAT COMES  
WITH YOUR  
RATIOS**

- Ratio Machine Head Tuners
- 4 different sets of brushed aluminum Invisomatch mounting plates
- All necessary mounting screws, nuts, washers
- Installation manual

*\* InvisoMatch plates in Gold, Chrome, Nickel and Black finishes are sold separately.*

## **NEW** **RATIO .... NAKED!**

For the world to see, how tuning should be...  
In a vintage spec'd, Retro Ratio design.



**Ratio**® machine heads make tuning a pleasure. Every time you turn a **Ratio**® machine head it feels natural, easy, and intuitive. Now, you can experience the performance-enhancing **Ratio**® technology on vintage instruments. Stay Vintage but don't tune your guitar like it's 1957!

Now, the unmatched tuning performance of the patented **Ratio multi-gear**ed tuning system is available in a vintage waffle-back compatible design! Tune faster, and with more precision, as each string has its own calibrated gear ratio. Each string has the same intuitive feel. There's no slowing down to tune the Low E or Plain G string, and no spinning the knobs faster for the High E or D string. **Ratio machine heads** also provide fine tuning for the sensitive strings and a corresponding coarser tuning for the slower-to-pitch strings. This is how machine heads for stringed instruments should always have been made! As with all **Graph Tech** products, **Retro Ratio**, machine heads come with a **45-Day Love It or Return It Guarantee**.

# VINTAGE RATIO TUNERS



## ELECTRIC 6-IN-LINE

Ratio electric  
6-in-line headstock

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-4624-N0 nickel



## ELECTRIC 3+3

Ratio electric  
3+3 headstock  
Classic style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-3424-N0 nickel



## ELECTRIC 3+3

Ratio electric  
3+3 headstock  
Classic style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-4324-N0 nickel



## ELECTRIC 3+3

Ratio electric  
3+3 headstock  
Vintage keystone buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-4424-N0 nickel



## OPEN BACK ACOUSTIC 3+3

Ratio open back  
3+3 headstock  
Skeleton style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 14:1, 20:1, 12:1

PRN-3411-N0 nickel  
PRN-3411-G0 gold



## OPEN BACK ACOUSTIC 3+3

Ratio open back  
3+3 headstock  
Butterbean style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 14:1, 20:1, 12:1

PRN-3422-N0 nickel

# TESTIMONIALS

*"Having been a user of Graph tech products for years, I'm blown away by the Ratio Tuning Machines. They've outdone themselves this time and these things are going on EVERY guitar I own."*

**Jasen Rauch**  
**Lead Guitar, Breaking Benjamin**

*"I'm proud to say that I use the Graph Tech RATIO tuners and I love their stability, consistency and great material quality...these tuners are absolutely amazing! This is the innovation in tuning guitars!"*

**Mike Kerr,**  
**Mike Kerr Group and First Bourne**

*"When I first heard about your tuners I thought it was cool, but perhaps just a gimmick... until I installed them on my axe and got to actually try them out! They perform very well, simplifying the task of tuning my guitar (and actually keeping it in-tune better than standard tuners) more than I could ever imagine. I will definitely recommend your fine product to all of my customers."*

**Brian Kirkner,**  
**Stringed Instrument Repair Tech & Luthier**

*"Out of all the brands of tuning systems out there on the market I have to say that I am most pleased with Ratio. I installed them on an old arch top electric guitar that I primarily use for teaching. By replacing the old tuners with the new Ratio system the guitar has now become one of my go to instruments for performances. The reliability and consistency with each tuner is certainly unmatched with competitor brands. I would recommend these tuners as an upgrade to any instrument in need! "*

**Jason March**  
**Folk Traditional Specialist / Reid Music**

*"The products you represent are of high quality and design...Been wanting to try those Ratio Tuners for some time and thanks to you I will now have three of my recording guitars equipped with those tuners. I put the Ratio Tuners on one of my main guitars (71 Reissue Squire Strat -EMG's- Graph Tech nut and saddles) and within minutes of installing those tuners I was able to set the Tremolo to floating...the first time in in 20 yrs and its holding tune remarkably well. They performed beyond what I had expected. The tuning processes is so smooth and accurate now, I love them!"*

**Frank Trowbridge,**  
**Guitar Franks Repair Service**

# LOCKING RATIO TUNERS



## ACOUSTIC 3+3

Ratio acoustic  
3+3 headstock  
Contemporary style buttons

Gear ratios included:  
E 39:1, 24:1, 20:1, 14:1, 20:1, 12:1

PRL-8411-C0 chrome  
PRL-8411-G0 gold



## ACOUSTIC 3+3

Ratio acoustic  
3+3 headstock  
Vintage style buttons

Gear ratios included:  
E 39:1, 24:1, 20:1, 14:1, 20:1, 12:1

PRL-8441-C0 chrome  
PRL-8441-G0 gold



## ELECTRIC 4+2

Ratio electric  
4+2 headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8421-C0 chrome  
PRL-8421-G0 gold  
PRL-8421-B0 black

Lefty Ratio:  
PRL-8421-LB0 black



## STAGGERED 6-IN-LINE

Ratio staggered post  
6-in-line headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-9721-C0 chrome  
PRL-9721-B0 black



## ELECTRIC 7-IN-LINE

Ratio electric  
7-in-line headstock

Gear ratios included:  
48:1, 39:1, 24:1, 20:1, 35:1, 20:1,

PRL-8721-C7 chrome  
PRL-8721-G7 gold  
PRL-8721-B7 black



## ELECTRIC 3+4

Ratio electric  
3+4 headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8621-C7 chrome  
PRL-8621-G7 gold  
PRL-8621-B7 black



## ELECTRIC 4+3

Ratio electric  
4+3 headstock  
Contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8521-C7 chrome  
PRL-8521-G7 gold  
PRL-8521-B7 black

# LOCKING RATIO TUNERS

## ELECTRIC 6-IN-LINE



Ratio electric  
6-in-line headstock  
Classic style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8731-C0	chrome
PRL-8731-G0	gold
PRL-8731-B0	black

Lefty Ratio:

PRL-8731-LC0	chrome
PRL-8731-LG0	gold
PRL-8731-LB0	black

## ELECTRIC 6-IN-LINE



Ratio electric  
6-in-line headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8721-C0	chrome
PRL-8721-G0	gold
PRL-8721-B0	black

Lefty Ratio:

PRL-8721-LC0	chrome
PRL-8721-LG0	gold
PRL-8721-LB0	black

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8311-C0	chrome
PRL-8311-G0	gold
PRL-8311-B0	black

Lefty Ratio:

PRL-8311-LC0	chrome
PRL-8311-LG0	gold
PRL-8311-LB0	black

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Vintage style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8341-C0	chrome
PRL-8341-G0	gold
PRL-8341-B0	black

Lefty Ratio:

PRL-8341-LC0	chrome
PRL-8341-LG0	gold
PRL-8341-LB0	black

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Classic style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8331-C0	chrome
PRL-8331-G0	gold
PRL-8331-B0	black

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRL-8322-C0	chrome
PRL-8322-G0	gold
PRL-8322-B0	black

# NON LOCKING RATIO TUNERS

## ELECTRIC 6-IN-LINE



Ratio electric  
6-in-line headstock  
Mini contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-2721-C0	chrome
PRN-2721-G0	gold
PRN-2721-B0	black
PRN-2721-N0	nickel

## ELECTRIC 6-IN-LINE



Ratio electric  
6-in-line headstock  
Classic style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-2731-C0	chrome
PRN-2731-G0	gold
PRN-2731-B0	black
PRN-2731-N0	nickel

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Vintage style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-2341-C0	chrome
PRN-2341-G0	gold
PRN-2341-B0	black
PRN-2341-N0	nickel

## ELECTRIC 3+3



Ratio electric  
3+3 headstock  
Contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-2311-C0	chrome
PRN-2311-G0	gold
PRN-2311-B0	black
PRN-2311-N0	nickel

## ACOUSTIC 3+3



Ratio acoustic  
3+3 headstock  
Contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 14:1, 20:1, 12:1

PRN-2411-C0	chrome
PRN-2411-G0	gold
PRN-2411-B0	black
PRN-2411-N0	nickel

## ELECTRIC 4+2



Ratio electric  
4+2 headstock  
Contemporary style buttons

Gear ratios included:  
39:1, 24:1, 20:1, 35:1, 20:1, 12:1

PRN-2321-C0	chrome
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# INVISOMATCH MOUNTING PLATES

Flawless retrofits for Ratio machine heads

US Patent 9,240,166



## NON DRILLING, PERFECT ALIGNMENT, EASY INSTALLATION

With Invisomatch mounting plates you will reduce the time to install RATIO machine heads to well under 15 minutes. The alignment of the machine heads is perfect, no holes to drill or fill, ideal for vintage instruments. Four sets of brushed aluminum Invisomatch mounting plates come free with every set of Ratio Tuners. Also available in premium finishes including chrome, nickel, black and gold.

## UPGRADE TO PREMIUM PLATED INVISOMATCH



Nickel



Black



Chrome



Gold

Fast and easy installation  
Use existing screw holes





# MOUNTING PLATES



**PRT-952-213-GO**

Premium plates for Gibson style screw hole	PRT-952-213-C0	chrome
	PRT-952-213-G0	gold
	PRT-952-213-B0	black
	PRT-952-213-N0	nickel
Standard plates for Gibson style screw hole	PRT-952-213-AL (Included in box)	aluminum



**PRT-952-214-C0**

Premium plates for 45 degree screw hole	PRT-952-214-C0	chrome
	PRT-952-214-G0	gold
	PRT-952-214-B0	black
	PRT-952-214-N0	nickel
Standard plates for 45 degree screw hole	PRT-952-214-AL (Included in box)	aluminum



**PRT-952-216-N0**

Premium plates for 90 degree screw hole	PRT-952-216-C0	chrome
	PRT-952-216-G0	gold
	PRT-952-216-B0	black
	PRT-952-216-N0	nickel
Premium plates for 90 degree screw hole	PRT-952-216-AL (Included in box)	aluminum



**PRT-952-217-B0**

Premium plates for F style screw hole	PRT-952-217-C0	chrome
	PRT-952-217-G0	gold
	PRT-952-217-B0	black
	PRT-952-217-N0	nickel
Standard plates for F style screw hole	PRT-952-213-AL (Included in box)	aluminum



**PRT-952-201-B0**

Premium plates for Fender style 2 pin hole	PRT-952-201-C0	chrome
	PRT-952-201-G0	gold
	PRT-952-201-B0	black
	PRT-952-201-N0	nickel

# TESTIMONIALS

*"After reading some reviews and seeing the ads, I decided to try a set of Graph Tech's Ratio tuners on my American standard Strat. The tuners arrived and I was very pleased with the quality and finish. Installing the tuners was a breeze using the included InvisoMatch plates — no need to drill any holes in my beloved Strat and the performance of these tuners is outstanding!*

*Tuning becomes incredibly easy and holds tune even when using the tremolo bar. I would highly recommend these as a great upgrade to any guitar and will be telling my customers what a great addition they would be for very stable and easy tuning.*

*Thanks, Graph Tech for a great product."*

**Jay Langan / Magdon Music / Guitar sales/tech**



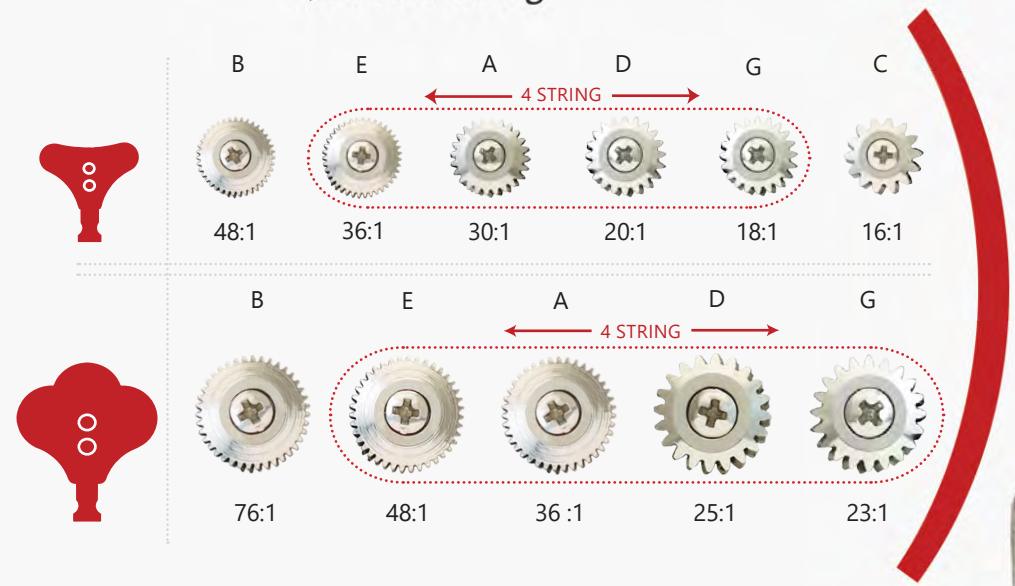
● *"I didn't know tuning my bass  
could be a recognizably better  
experience. I love the Ratios,  
and they're so smooth!"*

**NICOLE ROW**  
**PANIC! AT THE DISCO**



# UNPARALLELED TUNING PERFORMANCE FOR **BASS**

Amazingly Intuitive, Precise Tuning  
4,5 and 6 String



## The brilliance of Ratio tuning, now for bass

Predictable. Precise Tuning. Every String.



## WHAT IS BASS RAITO?

Ratio for bass machine heads is a new tuning system that increases the predictability and efficiency by taking the guess work out of tuning. On conventional bass machine heads, each string's machine head has the same gear ratio; however, each string has a unique string diameter, causing each of the strings to react differently to the turn of the machine head. With the new Ratio for bass, each string has its own specific gear ratio, so that every string reacts the same to the turn of a machine head.

## HOW DO THEY WORK?

Since each string's core diameter is different, a specific gear ratio for each string was researched and developed to ensure that each string reacted the same to the turn of a machine head. The result for a 4 string bass is a gear of 48:1, 36:1, 25:1, and 23:1 for the E,A,D, and G string, respectively. This system has created an even tuning experience that assures you that once you know what it feels like to tune one string, you will know what it will feel like to tune the rest of the strings. The easy-to-install system is available in classic "clover" style buttons or with the more contemporary "Y-key" style buttons. The "Y-key" buttons are available in chrome or black finishes. The Ratio for bass machine heads are also available for 4, 5 and 6 string basses in most headstock configurations.

# RATIO BASS TUNERS



## 4 IN LINE

Ratio bass  
4 in-line headstock  
Classic clover style buttons

Gear ratios included:  
48:1, 36:1, 25:1, 23:1

PRB-4401-C0 chrome

Lefty Ratio:  
PRB-4401-LC0 chrome



## 4 IN LINE

Ratio bass  
4 in-line headstock  
Modern Y-key style buttons

Gear ratios included:  
36:1, 30:1, 20:1, 18:1

PRB-4400-C0 chrome  
PRB-4400-B0 black



## 4+1 (STRING)

Ratio bass  
4+1 headstock  
Classic clover style buttons

Gear ratios included:  
76:1, 48:1, 36:1, 25:1, 23:1

PRB-5411-C0 chrome



## 2+2 (STRING)

Ratio bass  
2+2 headstock  
Modern Y-key style buttons

Gear ratios included:  
36:1, 30:1, 20:1, 18:1

PRB-4220-C0 chrome  
PRB-4220-B0 black



## 2+2 (STRING)

Ratio bass  
2+2 headstock  
Classic clover style buttons

Gear ratios included:  
48:1, 36:1, 25:1, and 23:1

PRB-4221-C0 chrome



## 2+3 (STRING)

Ratio bass  
2+3 headstock  
Modern Y-key style buttons

Gear ratios included:  
48:1, 36:1, 30:1, 20:1, and 18:1

PRB-5230-C0 chrome  
PRB-5230-B0 black



## 5 IN LINE

Ratio bass  
5 in-line headstock  
Modern Y-key style buttons

Gear ratios included:  
48:1, 36:1, 30:1, 20:1, 18:1

PRB-5500-C0 chrome  
PRB-5500-B0 black



## 3+3 (STRING)

Ratio bass  
3+3 headstock  
Modern Y-key style buttons

Gear ratios included:  
48:1, 36:1, 30:1, 20:1, 18:1, 16:1

PRB-6330-C0 chrome  
PRB-6330-B0 black



## 3+2 (STRING)

Ratio bass  
3+2 headstock  
Modern Y-key style buttons

Gear ratios included:  
48:1, 36:1, 30:1, 20:1, and 18:1

PRB-5320-C0 chrome  
PRB-5320-B0 black



# TUNE·A·LELE<sup>®</sup>

THE UKULELE MACHINE HEAD

TRY DOING THIS WITH REGULAR UKULELE  
MACHINE HEADS.....





# TUNE·A·LELE<sup>®</sup>

THE UKULELE MACHINE HEAD



**NEW** PATENTED TECHNOLOGY



# FIRST MACHINE HEAD DESIGNED SPECIFICALLY FOR UKULELE!

\*Maximum thickness of headstock that will fit Ratio for Ukulele is 13.5mm. Includes mounting screws and bushings.

**TWO BUTTON STYLES AVAILABLE!**



**PRU-5004-BK**

This set has larger buttons than PRU-4004-BK version. These ukulele machine heads are perfect fit for all types of ukuleles except Soprano type.



**PRU-4004-BK**

These ukulele machine heads are perfect fit for all types of ukuleles including Soprano type.





## WHAT IS A TUNE-A-LELE?

Tune-a-lele machine heads are a totally new and revolutionary system for tuning your ukulele. The patented technology creates a responsive and smooth tuning experience that allows for more efficient tuning with a design that was specifically designed with the ukulele in mind. Tune-a-leles are also far more lightweight than what comes on a standard uke, with the combined weight of 4 Ratios weighing less than a single standard machine head.

- 
- 6:1 uke friendly gear ratio, makes tuning quick, easy and rock solid
  - World's lightest machine head balances the uke (not headstock heavy)
  - Fits most uke headstocks

## HOW DO THEY WORK?

Tune-a-leles have been designed with a 6:1 gear ratio. This is in contrast to the 14:1 gear ratio on standard ukulele machine heads, which were originally designed for steel string guitars. The lower 6:1 gear ratio accommodates the ukulele string's physical properties and creates a tuning system that is far more responsive and predictable.

The Ratio system is a whole new concept for gear design which not only improves the tuning experience, but holds your uke's tuning longer.

Tune-a-leles are made from a proprietary composite material that not only makes them extremely lightweight, lending to a better balanced instrument, but they are extremely durable—withstanding over 60lbs of string pressure.

**DRY**<sup>n</sup>*Glide*

# DRY N' FAST HANDS! INSTANTLY

DRY, PH BALANCED HANDS FOR AN ULTRA-SMOOTH PLAYING EXPERIENCE



## ORDERING INFO

PH-0002-01  
(20G BOTTLE)



## WHAT ABOUT IT?

Dry n' Glide is an engineered talc, made for players, that balances the pH levels in your hands, instantly dries moist or sticky hands, and features an easy to use roll-on applicator. Whether you're shredding the guitar, bass, uke, piano,, Dry n' Glide will keep your hands dry and your gear clean.

## HIGHLIGHTS

- Great for all players.
- Instantly dries moist or sticky hands.
- pH balancing formula helps protect your gear from premature aging and corrosion.
- Creates an effortless feel when playing.
- Clean and easy to use roll-on applicator.
- Hundreds of applications per bottle.



## ORDERING INFO

YP-DRYPOP-00  
(12 PACK)

*"Dry n' Glide has become an essential part of my nightly ritual. There are two or three points during the show where I run back and apply more. I've never had a real problem with sweat or moisture but I didn't realize how much of a difference it makes and how much it was impeding my playing and my feel until I used Dry n' Glide. Over the last couple years, we have been doing 90% outdoor shows in humid climate. When it is wet and sticky and we're playing 3 ½ hour shows, having Dry n' Glide has been huge. Now I can't imagine getting through a set without it".*

**RICHARD FORTUS**  
GUITARIST FOR GUNS N' ROSES



[www.graphtech.com](http://www.graphtech.com)

 US PATENT PENDING





MAN-MADE IVORY PICKS

# HARMONICALLY RICH PICKS

3 tones, 3 gauges, 3 shapes



## WHAT ARE TUSQ PICKS?

The type of pick you use affects how you play and the tone you create. That's why we created TUSQ picks, the world's first and only pick with 3 distinct levels of harmonics. By formulating our proprietary material, we created a whole new class of picks, with highly resonant characteristics that produce three distinctive tones: Bright, Warm and Deep.

TUSQ picks have a feel and articulation like no other pick on the market, very reminiscent of vintage tortoise shell: crisp tone, thin, yet stiff.

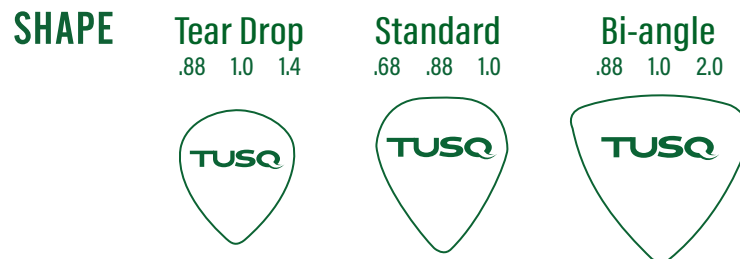
## CHOOSING YOUR PICK TONE

TUSQ pick tones are all coded by color. White is BRIGHT, when you want your tone clean, clear, precise and rich in harmonic content.

Our vintage cream colored picks WARM it up a bit, and charcoal colored picks go DEEP to give you a smooth, very warm feel and tone.

TUSQ picks: The feel you like, the shape you want, and now the tone you crave.

**Smooth Balanced Feel.  
Clean Articulated Attack.  
Thin & Stiff Like Tortoise Shell.**





## BRIGHT

Sparkling highs, clean response and an edgy bite with aggressive play.



## WARM

Rich overtones, mellow, immediate response and comfortable attack.



## DEEP

Dig in with a strong bottom end, and even harmonic response across the fret board.



## STANDARD

### BRIGHT TONE white



SKU	THICKNESS	PACK
PQP-0100-W6	1 mm	6 pack
PQP-0088-W6	.88 mm	
PQP-0068-W6	.68 mm	
PQP-0100-W72	1 mm	72 pack
PQP-0088-W72	.88 mm	
PQP-0068-W72	.68 mm	

## BI-ANGLE

### BRIGHT TONE white



SKU	THICKNESS	PACK
PQP-0402-W4	2 mm	4 pack
PQP-0401-W4	1 mm	
PQP-0488-W4	.88 mm	
PQP-0402-W48	2 mm	48 pack
PQP-0401-W48	1 mm	
PQP-0488-W48	.88 mm	

## TEAR DROP

### BRIGHT TONE white



SKU	THICKNESS	PACK
PQP-0514-W6	1.4 mm	6 pack
PQP-0501-W6	1 mm	
PQP-0588-W6	.88 mm	
PQP-0514-W72	1.4 mm	72 pack
PQP-0501-W72	1 mm	
PQP-0588-W72	.88 mm	

### WARM TONE vintage



SKU	THICKNESS	PACK
PQP-0100-V6	1 mm	6 pack
PQP-0088-V6	.88 mm	
PQP-0068-V6	.68 mm	
PQP-0100-V72	1 mm	72 pack
PQP-0088-V72	.88 mm	
PQP-0068-V72	.68 mm	

### WARM TONE vintage



SKU	THICKNESS	PACK
PQP-0402-V4	2 mm	4 pack
PQP-0401-V4	1 mm	
PQP-0488-V4	.88 mm	
PQP-0402-V48	2 mm	48 pack
PQP-0401-V48	1 mm	
PQP-0488-V48	.88 mm	

### WARM TONE vintage



SKU	THICKNESS	PACK
PQP-0514-V6	1.4 mm	6 pack
PQP-0501-V6	1 mm	
PQP-0588-V6	.88 mm	
PQP-0514-V72	1.4 mm	72 pack
PQP-0501-V72	1 mm	
PQP-0588-V72	.88 mm	

### DEEP TONE grey



SKU	THICKNESS	PACK
PQP-0100-G6	1 mm	6 pack
PQP-0088-G6	.88 mm	
PQP-0068-G6	.68 mm	
PQP-0100-G72	1 mm	72 pack
PQP-0088-G72	.88 mm	
PQP-0068-G72	.68 mm	

### DEEP TONE grey



SKU	THICKNESS	PACK
PQP-0402-G4	2 mm	4 pack
PQP-0401-G4	1 mm	
PQP-0488-G4	.88 mm	
PQP-0402-G48	2 mm	48 pack
PQP-0401-G48	1 mm	
PQP-0488-G48	.88 mm	

### DEEP TONE grey



SKU	THICKNESS	PACK
PQP-0514-G6	1.4 mm	6 pack
PQP-0501-G6	1 mm	
PQP-0588-G6	.88 mm	
PQP-0514-G72	1.4 mm	72 pack
PQP-0501-G72	1 mm	
PQP-0588-G72	.88 mm	





# TUSQ PICKS MIXED PACKS

## STANDARD MIXED

PQP-0100-ST includes:



SKU	THICKNESS	COLOR	QUANTITY
BQP-0068-VT	.68 mm	vintage grey	1
BQP-0068-GR	.68 mm	grey	
BQP-0088-WT	.88 mm	white	1
BQP-0088-VT	.88 mm	vintage	
BQP-0100-WT	1 mm	white	1
BQP-0100-GR	1 mm	grey	

## TEAR DROP MIXED

PQP-0500-TD includes:



SKU	THICKNESS	COLOR	QUANTITY
BQP-0588-VT	.88 mm	vintage white	1
BQP-0588-WT	.88 mm	white	
BQP-0501-GR	1 mm	grey	1
BQP-0501-VT	1 mm	vintage	
BQP-0514-WT	1.4 mm	white	1
BQP-0514-GR	1.4 mm	grey	

## BI-ANGLE MIXED

PQP-0400-BA includes:



SKU	THICKNESS	COLOR	QUANTITY
BQP-0488-VT	0.88 mm	vintage	1
BQP-0401-WT	1 mm	white	
BQP-0401-VT	1 mm	vintage	
BQP-0402-GR	2 mm	grey	

## MASTER ASSORTED PACK

PQP-1000-MP includes:



SKU	SHAPE	THICKNESS	COLOR	QUANTITY
BQP-0068-VT	STANDARD	.68 mm	vintage grey	1
BQP-0088-WT		.88 mm	grey	
BQP-0100-GR	TEAR DROP	1 mm	white	
BQP-0501-VT		1.4 mm	vintage	
BQP-0514-WT	BI ANGLE	1.4 mm	white	
BQP-0401-VT		1 mm	grey	



# PICK YOUR TONE, PICK YOUR GAUGE

Sure to be a big hit in the world of thumb pickers, which include:  
**ACOUSTIC, ELECTRIC, BANJO, LAP AND PEDAL STEEL PLAYERS!**

## FEATURES & BENEFITS

- Harmonically rich TUSQ material
- Thin & stiff like tortoise shell
- Three distinctive pick tones
- Smooth, balanced feel
- Great for flat and hybrid picking
- Clean, articulate attack

TUSQ Thumb Picks come in Three Tones and Two Gauges.

### tone



### Gauge



## THUMB PICKS 0.88

SKU	THICKNESS	COLOR	PACK
PQP-0288-W3	.88 mm	white	3 pack
PQP-0288-V3		vintage	
PQP-0288-G3		grey	

## THUMB PICKS 1.40

SKU	THICKNESS	COLOR	PACK
PQP-0140-W3	1.4 mm	white	3 pack
PQP-0140-V3		vintage	
PQP-0140-G3		grey	

## THUMB PICKS MIXED PACK 0.88

SKU	THICKNESS	COLOR	PACK
PQP-0288-MX	.88 mm	white vintage grey	3 pack

## THUMB PICKS MIXED PACK 1.40

SKU	THICKNESS	COLOR	PACK
PQP-0140-MX	1.4 mm	white vintage grey	3 pack

*"We spent a lot of time designing our TUSQ Thumb Picks to be nimble, articulate, and feel like an old friend when you put it on."*

**- The Pickology Team at Graph Tech**

*"There are not a lot of times something comes along in a pick world that is truly different, but this is one of those times. We spent a lot of time designing our TUSQ Thumb Picks to feel nimble and articulate, and still have the player choose the tone and gauge just right for them."*

**- Dave Dunwoodie, Graph Tech Guitar Labs Head Honcho**

# GREAT TONE STARTS HERE!

TUSQ Picks have created a whole new category in guitar picks. With Graph Tech's proprietary blends of TUSQ pick material, TUSQ Thumb Picks are available in three distinctive tones, Bright, Warm and Deep. The three tones add a whole new dimension to a player's style and tone.



See the Difference  
from Three States, Three Groups





# TUSQ PICK BOXES

SKU# - PQP-0108-00

## PROMO BOX MIXED

SKU NUMBER	DESCRIPTION	QTY
BQP-0068-GR	TUSQ Standard Pick 0.68mm Grey	12
BQP-0068-WT	TUSQ Standard Pick 0.68mm White	12
BQP-0068-VT	TUSQ Pick A1 0.68mm Vintage	12
BQP-0088-GR	TUSQ Standard Pick 0.88mm Grey	12
BQP-0088-WT	TUSQ Standard Pick 0.68mm White	12
BQP-0088-VT	TUSQ Pick A3 0.68mm Vintage	12
BQP-0100-GR	TUSQ Standard Pick 1.00mm Grey	12
BQP-0100-WT	TUSQ Standard Pick 1.00mm White	12
BQP-0100-VT	TUSQ Pick A5 1.00mm Vintage	12
BQP-0588-GR	TUSQ Tear Drop Pick 0.88mm Grey	6
BQP-0588-WT	TUSQ Standard Pick 0.88mm White	6
BQP-0588-VT	TUSQ Standard Pick 0.88mm Vintage	6
BQP-0501-GR	TUSQ Tear Drop Pick 1.00mm Grey	6
BQP-0501-WT	TUSQ Tear Drop Pick 1.00mm White	6
BQP-0501-VT	TUSQ Tear Drop Pick 1.00mm Vintage	6
BQP-0514-GR	TUSQ Tear Drop Pick 1.40mm Grey	6
BQP-0514-WT	TUSQ Tear Drop Pick 1.40mm White	6
BQP-0514-VT	TUSQ Tear Drop Pick 1.40mm Vintage	6
BQP-0488-GR	TUSQ Bi-Angle Pick 0.88mm Grey	4
BQP-0488-WT	TUSQ Bi-Angle Pick 0.88mm White	4
BQP-0488-VT	TUSQ Bi-Angle Pick 0.88mm Vintage	4
BQP-0401-GR	TUSQ Bi-Angle Pick 1.00mm Grey	4
BQP-0401-WT	TUSQ Bi-Angle Pick 1.00mm White	4
BQP-0401-VT	TUSQ Bi-Angle Pick 1.00mm Vintage	4
BQP-0402-GR	TUSQ Bi-Angle Pick 2.00mm Grey	4
BQP-0402-WT	TUSQ Bi-Angle Pick 2.00mm White	4
BQP-0402-VT	TUSQ Bi-Angle Pick 2.00mm Vintage	4

SKU# - PQP-0216-00

## PROMO BOX - STANDARD

SKU NUMBER	DESCRIPTION	QTY
BQP-0068-GR	TUSQ Standard Pick 0.68mm Grey	24
BQP-0068-WT	TUSQ Standard Pick 0.68mm White	24
BQP-0068-VT	TUSQ Pick A1 0.68mm Vintage	24
BQP-0088-GR	TUSQ Standard Pick 0.88mm Grey	24
BQP-0088-WT	TUSQ Standard Pick 0.88mm White	24
BQP-0088-VT	TUSQ Pick A3 0.88mm Vintage	24
BQP-0100-GR	TUSQ Standard Pick 1.00mm Grey	24
BQP-0100-WT	TUSQ Standard Pick 1.00mm White	24
BQP-0100-VT	TUSQ Pick A5 1.00mm Vintage	24

SKU# - PQP-0144-00

## PROMO BOX - BI-ANGLE

SKU NUMBER	DESCRIPTION	QTY
BQP-0488-GR	TUSQ Bi-Angle 0.88mm Grey	16
BQP-0488-WT	TUSQ Bi-Angle 0.88mm White	16
BQP-0488-VT	TUSQ Bi-Angle 0.88mm Vintage	16
BQP-0401-GR	TUSQ Bi-Angle 1.00mm Grey	16
BQP-0401-WT	TUSQ Bi-Angle 1.00mm White	16
BQP-0401-VT	TUSQ Bi-Angle 1.00mm Vintage	16
BQP-0402-GR	TUSQ Bi-Angle 2.00mm Grey	16
BQP-0402-WT	TUSQ Bi-Angle 2.00mm White	16
BQP-0402-VT	TUSQ Bi-Angle 2.00mm Vintage	16

SKU# - PQP-0218-00

## PROMO BOX - TEAR DROP

SKU NUMBER	DESCRIPTION	QTY
BQP-0588-GR	TUSQ Tear Drop Pick 0.88mm Grey	24
BQP-0588-WT	TUSQ Tear Drop Pick 0.88mm White	24
BQP-0588-VT	TUSQ Tear Drop Pick 0.88mm Vintage	24
BQP-0501-GR	TUSQ Tear Drop Pick 1.00mm Grey	24
BQP-0501-WT	TUSQ Tear Drop Pick 1.00mm White	24
BQP-0501-VT	TUSQ Tear Drop Pick 1.00mm Vintage	24
BQP-0514-GR	TUSQ Tear Drop Pick 1.40mm Grey	24
BQP-0514-WT	TUSQ Tear Drop Pick 1.40mm White	24
BQP-0514-VT	TUSQ Tear Drop Pick 1.40mm Vintage	24

SKU# - PQP-0618-TH

## THUMB PICK BOX - MIXED TONES

SKU NUMBER	DESCRIPTION	QTY
PQP-0140-W3	TUSQ Thumb Pick 1.40mm White	18
PQP-0140-V3	TUSQ Thumb Pick 1.40mm Vintage	18
PQP-0140-G3	TUSQ Thumb Pick 1.40mm Grey	18
PQP-0288-G3	TUSQ Thumb Pick 0.88mm Grey	18
PQP-0288-V3	TUSQ Thumb Pick 0.88mm Vintage	18
PQP-0288-W3	TUSQ Thumb Pick 0.88mm White	18



# NUTS/SADDLES/BRIDGE PINS



- ACOUSTIC STEEL STRING -

- ACOUSTIC NYLON STRING -

- MANDOLIN -

- UKULELE -

- GUITAR -

- BASS -

## TUSQ is laboratory-proven to increase harmonic content and harmonic sustain over bone.

## WHAT IS TUSQ?

TUSQ is a manmade ivory containing 100% organic polymers with no animal by-products. TUSQ has quickly become an important tone performance tool for some of the world's most renowned guitar manufacturers, luthiers and playing professionals. TUSQ nuts and saddles have rich tone and sustain, without the inconsistency found in ivory, bone and other natural materials.

Bone and ivory have hard and soft spots (grain) throughout each piece, hampering consistent transfer of vibrations to the guitar top. TUSQ nuts, saddles and bridge pins are designed to transfer the right frequencies more efficiently from the string to the guitar body.

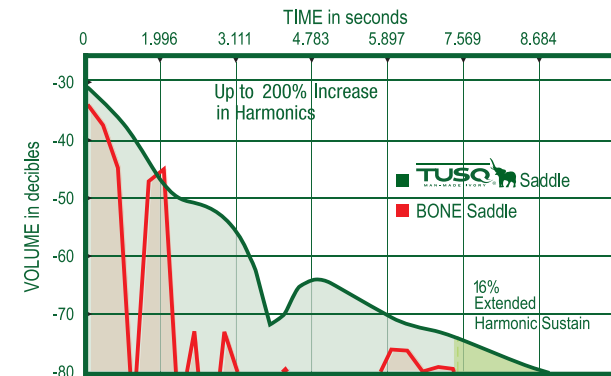
## HOW DOES IT WORK?

Saddles act as a filter between the strings and the guitar top, determining which frequencies transfer to the guitar top, how fast (sustain) and what frequencies remain vibrating in the string.

TUSQ is laboratory-proven to enhance harmonic content up to 200% over bone and harmonic sustain up to 16%. Graph Tech engineered TUSQ to properly filter the perfect balance of high, mid and low frequencies, and their harmonics. TUSQ has consistent quality from piece to piece and within each piece without any flat or dead spots that can be found in bone or ivory. TUSQ is the perfect product for under the saddle pickups. Easy to work with, TUSQ can be filed and sanded without any chipping or flaking.

## HOW DOES IT SOUND?

TUSQ delivers a rich tone, crystal clear bell-like high end with big open lows and a noticeable increase in harmonic content and harmonic sustain. Increased harmonics equals more richness and character in your tone. Its like the difference between a 4 piece choir singing and a 12 piece choir singing every time you play a note. It's a big, full sound.



## TESTIMONIALS

“

“TUSQ nuts and saddles have improved the sustain and clarity”

**BOB TAYLOR**  
President, Taylor Guitars

”

\* TUSQ also available for 5, 7, 8 and 12 stringed instruments \*\* Custom sizes & colours available (mold charges may apply).

# HIGHLIGHTS



Engineered for superior **vibration transfer**



**No soft or dead spots**  
that can be found  
in bone or ivory



**Rich Tone**  
a crystal clear bell-like high  
end and big open low end



Used by **the world's finest  
guitar manufacturers**



**Easy to work**  
can be filed and sanded;  
will not chip or flake



Laboratory-proven to  
**enhance harmonic content**  
(up to 200%)





**NO MORE POACHING**  
**NO MORE KILLING**  
**HARMONICALLY RICH TONE**  
**100% ORGANIC POLYMERS**

# TUSQ TRADITIONAL BRIDGE PINS



## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1100-01	white	no	0.2020"/5.14 mm	6 pack
PP-2100-01	black			



## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1122-00	white	2mm Black	0.2020"/5.14 mm	6 pack
PP-2122-00	black	2mm white		



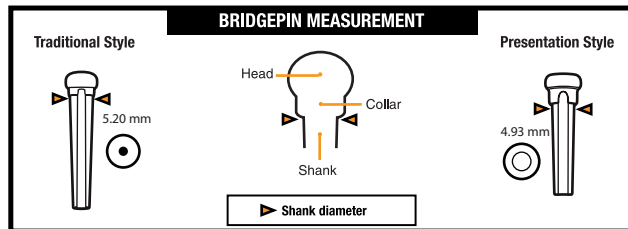
## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1142-00	white	2mm Mother of Pearl	0.2020"/5.14 mm	6 pack
PP-2142-00	black			



## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1182-00	white	2mm Paua Shell	0.2020"/5.14 mm	6 pack
PP-2182-00	black			



WHITE



BLACK

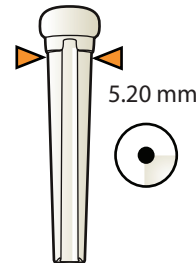


MOTHER-OF-PEARL



PAUA SHELL

Traditional TUSQ Bridge Pins have a 5.14mm shank diameter and fit most of the following acoustic model guitars:



- Alvarez
- Ibanez
- Walden
- Carvin
- Larrivee
- Washburn
- Cole Clark
- Martin
- Yamaha
- Cort
- Morris
- Epiphone
- Schecter
- Fender
- Tacoma
- Gibson
- Takamine

# TUSQ PRESENTATION BRIDGE PINS



## PRESENTATION BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1000-00	white	4mm	0.1920"/4.93 mm	6 pack
PP-2000-00	black	Paua shell		

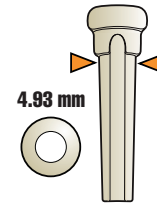
# TUSQ END PINS



## END PINS

SKU	COLOR	DOT	QTY
PP-7100-00		no	
PP-7142-00	white	mother of pearl	
PP-7182-00		paua shell	6 pack
PP-7211-00		no	
PP-7242-00	black	mother of pearl	
PP-7282-00		paua shell	

Presentation TUSQ Bridge Pins have a 4.93mm shank diameter and fit most of the following acoustic model guitars:



- Art & Lutherie
- Maton
- Seagull
- Garrison
- Norman
- Simon & Patrick
- Godin
- Olson
- Taylor
- Goodall
- Rainsong
- Guild
- Santa Cruz



## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-1044-00	white	4mm	0.1920"/4.93 mm	6 pack
PP-2044-00	black	Mother of Pearl		



## TRADITIONAL BRIDGE PINS

SKU	COLOR	DOT	SHANK DIAMETER	QTY
PP-4000-00	white	No	0.1920"/4.93 mm	6 pack
PP-3000-00	black			

# TESTIMONIALS

“

*"I just installed a set of your TUSQ bridge pins in place of the plastic originals. WOW! The guitar sounds louder and brighter. I have to say that your product lives up to its reputation. Thanks!"*

**W. Lankenau**

*"Hi Guys, Well, I had to spend some time sanding them down but I just wanted to say that I am pleased with the sonic results I achieved on my Guild guitar, after installing your Tusq Bridge Pins. Good product."*

**Steven**

”

## WHAT IS TUSQ XL?

Most tuning problems originate at the nut. Strings move across the nut from string bend & tremolo use. If they get caught up in the nut, you go out of tune. TUSQ XL gives you a dramatic increase in tuning stability for string bends, aggressive playing and tremolo use by providing permanent lubrication between the string and the nut. TUSQ XL nuts are based on the highly resonant TUSQ man made ivory, which creates superior tone and provides tuning precision on all open notes.



### PERMANENTLY LUBRICATED NUTS FOR ELECTRIC GUITARS

TUSQ tone, Vintage Good Looks,  
Permanent Lubrication

\* TUSQ XL also available for 4, 5, 7, 8 and 12 stringed instruments \*\* Custom sizes & colours available (mold charges may apply).

## GREAT TUNING WITH A CLASSIC LOOK.



## TESTIMONIALS

“

*“There is something special about the Graph Tech Nut, it just fixes everything that’s wrong with all my guitars. The guitar doesn’t go out of tune anymore. There is something in this nut that no one has. This is the stuff Bro.”*



**DAN SPITZ**

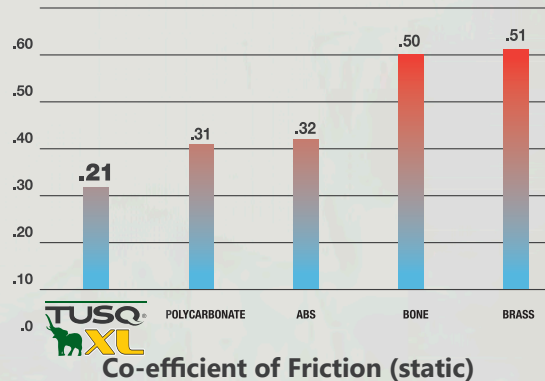
Grammy nominated Multi Platinum Recording Artist & cofounder of Anthrax

”

- Impregnated with PTFE lubricant to improve tuning stability
- Balanced tone, increased harmonic content and richness
- Consistent quality from piece to piece - no flat or dead spots
- Lightweight and highly rigid material for optimum vibration transfer

## HOW DOES IT SOUND?

TUSQ XL has a noticeably rich harmonic content. It is laboratory-proven to enhance harmonic content up to 200% and improve sustain up to 16%. It is permanently lubricated with PTFE which forms a slick barrier between the nut and the string, eliminating binding. Strings float across the nut and slide effortlessly back into tune.



## HOW DOES IT WORK?

TUSQ XL has lubrication impregnated all the way through the material (the slipperiest substance on earth - 500 times more slippery than graphite). It will never run out of lubrication. Other nut materials have a tendency to bind the strings in their slots and contributing to both the difficulty of keeping guitars in tune when using a tremolo and/or bending strings.

TUSQ XL is engineered for maximum vibration transfer and is consistent throughout, unlike bone or ivory, which have natural grains causing dead spots. These dead spots dampen the balance in tone and harmonic content. Generic plastics and synthetic materials like Micarta® or Corian®, hamper tuning performance and tone because of inconsistency due to shrinkage and/or hand cut slots.

## HIGHLIGHTS



**Permanent lubrication**



**Consistent vibration**



**Tuning stability**



**Superior tone**



**No dead spots**

## WHAT IS BLACK TUSQ XL?

Black TUSQ XL is the nut that will take aggressive playing, shredding, massive string bends, heavy tremolo use and keep the guitar in tune! With the great tone of TUSQ XL in cool black to match the guitar with an edgy look, Black TUSQ XL is permanently lubricated for improved tuning performance. Designed to boost guitar tone and performance, this precision engineered nut is made with a specially formulated material. It couples the vibrations of the strings to the neck, bringing out the hidden harmonics and richness in all the open notes. Black TUSQ XL is the heavy rocking big daddy of TUSQ XL. This is a nut with attitude!



## PERMANENTLY LUBRICATED NUTS FOR ELECTRIC GUITARS

Same TUSQ XL sound and feel with a contemporary look

# GREAT TUNING WITH A MODERN LOOK



Black TUSQ XL for BASS



Black TUSQ XL for Electric guitar



Black TUSQ XL for Acoustic guitar

# TESTIMONIALS

“We use BLACK TUSQ XL on all of our high end Prestige and Premium series Ibanez guitar and basses. Ibanez selected BLACK TUSQ XL because of its superior tone and tuning stability”.

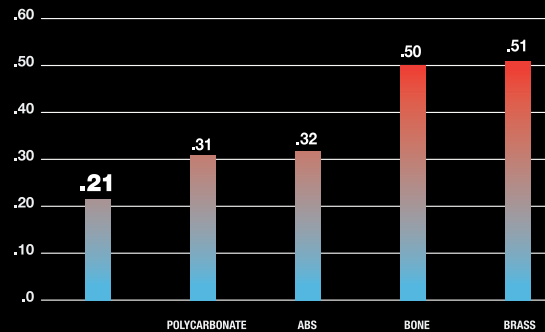
**Yuki Ozawa**

Electric Guitar Department Manager, Ibanez

- Impregnated with PTFE lubricant to improve tuning stability
- Balanced tone, increased harmonic content and richness
- Consistent quality from piece to piece - no flat or dead spots
- Lightweight and highly rigid material for optimum vibration transfer

# HOW DOES IT SOUND?

Rich in tone with hidden harmonics released. Black TUSQ XL is engineered for maximum vibration transfer and is consistent throughout, unlike natural materials like bone or ivory, which have natural grains causing dead spots. These dead spots dampen balance in tone and harmonic content. Generic plastics and synthetic materials like Micarta® or Corian®, hamper tuning performance and tone because of shrinkage and/or hand cut slots.



Co-efficient of Friction (static)

# HOW DOES IT WORK?

Black TUSQ XL gives you a dramatic increase in tuning stability for big string bends, aggressive playing and tremolo use. It provides better coupling of the string vibration to the guitar neck with the added bonus of precision slotting. Black TUSQ XL nuts are based on the highly resonant TUSQ man-made ivory, providing superior tone on all open notes. Other nut materials have a tendency to bind the strings in their slots and contribute to the difficulty of keeping guitars in tune when using a tremolo, playing aggressively or doing string bends. Black TUSQ XL has lubrication impregnated all the way through the material (the slipperiest substance on earth... 500 times more slippery than graphite), so it will never run out of lubrication.

# HIGHLIGHTS



Permanent lubrication



Consistent vibration



Tuning stability



Superior tone



No dead spots



Modern look

# NUBONE<sup>®</sup> XBL

Richer Bass Tones and Easier Tuning

## PERMANENTLY LUBRICATED NUTS AND SADDLES

**Ideal for ukuleles and guitars with  
laminated tops, backs or sides**

\* NuBone XBL is the preferred nut for many of the top ukulele manufactures, including Lanikai, Kala, Mahalo, and more.

“

Nubone XBL enhances the bass tones of my ukulele that are crucial to my sound. This nut and saddle allow me to fully express my artistic vision.

Taimane Gardner,  
American ukulele virtuoso and composer

”





# NuBone XBL is specially formulated to increase the volume and enhance low end harmonics.

Acoustic Steel String / Acoustic Nylon String / Ukulele / Mandolin



NUBONE XBL NUTS AND SADDLES

## TESTIMONIALS

“

NuBone XBL nuts and saddles give our ukes increased volume and sustain while adding clarity and sweetness to each note. We are very stoked to be partnering with Graph Tech and featuring their products on the majority of our instruments.

**Michael Upton**

President, Kala Brand Music Co.

”

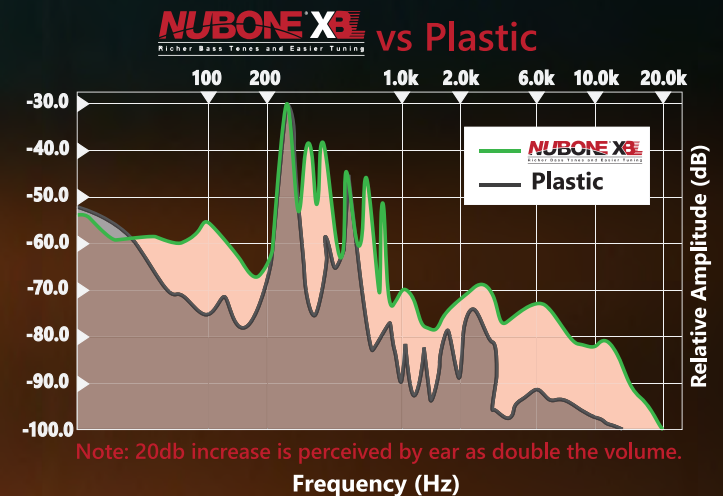
## HOW DOES IT WORK?

NuBone XBL is specially formulated to increase the volume and enhance low end harmonics plus, it's permanently lubricated to drastically improve tuning stability. How does it sound? With many of the same tone enhancing qualities of TUSQ, NuBone XBL emphasizes a great low end harmonic content. Now ukuleles and guitars at any price point can have the rich low end response of a high end instrument. How does it work? NuBone XBL (Extended Bass Response with lubrication) is the latest innovation in our NuBone line. Manufactured under high heat and pressure, NuBone XBL is specially formulated to produce more bass harmonics. By transferring the optimum frequencies to the guitar, NuBone XBL increases low end volume, tone and harmonics. Plastic nuts and saddles vary greatly, often turning out too soft, too brittle or hollow. These inconsistencies kill tone, dampen sound, interrupt the string vibrations and do nothing to increase the harmonic content of the guitar. Some synthetic materials actually hinder the frequencies of the guitar, and do not allow it to perform to it's full potential. NuBone XB is strong, durable, and consistent throughout to ensure superior vibration transfer. As each part is permanently lubricated, strings don't get caught up in the nut and saddles and glide back into tune.

- Extended low-end harmonics and overall volume
- Increased harmonic content and richness
- Permanently lubricated for years of great tuning stability.
- Consistent quality from piece to piece - no flat or dead spots
- UV resistant - won't lose its color over time

## HOW DOES IT SOUND?

With many of the same tone enhancing qualities of TUSQ, NuBone XBL has a great low end harmonic content. Now ukuleles and guitars at any price point can have the low end response of a high end instrument.





## WHAT IS STRING SAVER?

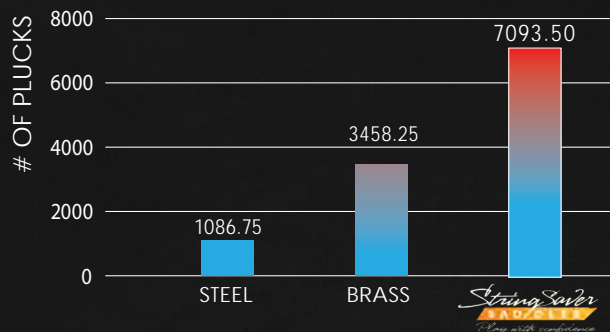
There's never a good time to break a string, but it's a fact of life if you play a guitar, it typically occurs at the worst time. String Savers are guaranteed to reduce string breakage while providing full bodied tone and up to 25% increase in sustain. String breakage is caused by metal fatigue. String Savers are impregnated with PTFE the slipperiest substance on earth.

This alleviates the binding grip of the saddle on the string thus spreading the stress at the common breaking point. The result is a dramatic reduction in string breakage and extended string sustain.

## HOW DOES IT SOUND?

String Saver Originals are made from our patented String Saver material. String Savers give you a very balanced tone compared to regular metal saddles with nice crisp highs, warm mids and a deep bass. They don't have the 2 KHz spike that metal saddles have, giving the tone more balance and dimension to let the rest of the highs and harmonics through. You will begin to hear all the added tone and harmonics that String Saver Saddles give you. Available for Strat®, Tele®, PRS® and Floyd Rose®.

String Saver Classics are made with an extremely high quality steel saddle with our patented String Saver material inserted in the string ramp. String Saver Classics preserve the classic look of metal saddles while freeing you from the problem of breaking strings. Imagine how fearless you could play if you don't have to worry about breaking strings! Available for Strat®, Tele®, PRS® and Floyd Rose®.



## ABOUT OUR TELE® I.O.S. SADDLES

I.O.S. Barrel Saddles have been designed for Vintage Tele® -style guitars. I.O.S. Saddles open up string vibration by changing the string contact point on the saddle. Strings are allowed to oscillate more freely, allowing for a fatter, more open sound, increased sustain and the elimination of the "sitar" effect. 3-Piece saddles (PS-8163-00 and PQ8163-00) feature built-in compensation. Available in both TUSQ® and String Saver™, I.O.S. Barrel Saddles are an important upgrade for any guitarist seeking improved performance from a Tele-style guitar.



## HOW TO CHOOSE RIGHT SADDLES?

When it comes to finding out what saddles will fit your tune-o-matic bridge, it can be a difficult process. The best thing you can do is check for any markings on the underside of your current bridge. With those markings check our fit chart below to see if we have a match.

If you do not see your bridge on our chart you will need to see if we can find a fit by contacting us at: [sales@graphtech.com](mailto:sales@graphtech.com) or 1-604-940-5353 & 1-800-388-7011.

## HIGHLIGHTS



Permanent lubrication



Consistent vibration



Tuning stability



Superior tone

No matter how hard you play,  
String Savers dramatically  
reduce string breakage: we guarantee it!

## TESTIMONIALS

“

*"I like String Saver saddles because they save my strings from breaking...I've been using them now for at least 10 years, if not longer, and I've noticed a significant decrease in string breakage... I hardly ever break strings anymore."*

**Kenny Wayne Shepherd,**  
Reprise Records

”

## TUNE-O-MATIC SIZING CHART

BRIDGE MODEL OR STAMP	STRING SAVER	BRIDGE MODEL OR STAMP	STRING SAVER
Gibson ABR-t	PS-8400-00	Kormax	PS-8615-00
Gibson Nashville Post 2000	PS-8501-00	Piglail Wraparound Bridge	PS-8617-00
Gibson Nashville Pre 2000	PS-8500-00	PW	PS-8501-00
GOTOH Japan	PS-8560-00	S.I.C.	PS-8615-00
Leo Quan Badass	PS-8440-00	TonePros AVR-II	PS-8615-00
Schaller 455 / 456	PS-8500-00	TonePros AVT-II	PS-8617-00
Schaller Made In Germany	PS-8500-00	TonePros GOTOH	PS-8600-00
SUNG IL! Hipshot Baby Grand	PS-8616-00	TonePros TP6	PS-8501-00
SUNG IL BM002	PS-8615-00	TonePros TFPF	PS-8502-00
SUNG IL BM003	PS-8618-00	TonePros T3BT	PS-8560-00
BR-EG	PS-8633-00	marked "TonePros"	PS-8560-00
Vox Bridges	PS-8501-00	marked "Epiphone"	PS-8440-00
TABR I	PS-8440-00	Stetsbar	PS-8560-00
Jackson/Charvel 0099113500	PS-8501-00	GOTOH 1038	PS-8600-00
BM*	PS-8501-00	BH*	PS 4501-00

\*may require slight modification



# STRING SAVER ORIGINAL

ghost pickup version\* available

PS-8000-00  
PN-8000-00 \*

## IMPORT STRAT® / TELE® STYLE

Fit most import Strat® and Tele® styles



	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PS-8000-F0  
PN-8000-F0 \*

## VINTAGE STRAT® / TELE® STYLE

Fit most vintage and vintage re-issue Strat® and Tele® styles



	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.820	0.440	0.230	2.179
INCHES APPROX.	13/16	7/16	7/21	2 3/16
MILLIMETRES	20.83	11.18	5.84	55.35

PS-8220-00  
PN-8220-00 \*

## PRS® (PAUL REED SMITH) STYLE

Fit many PRS® style guitars. Slightly lower than our PS-8000-00



	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PS-8200-00  
PN-8200-00 \*

## WILKINSON® STYLE

Set contains 3 different height saddles. Measure for shortest saddle



	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	1.250	0.390	0.222	VARIABLE
INCHES APPROX.	1 1/4	3/8	7/32	VARIABLE
MILLIMETRES	31.75	9.91	5.65	VARIABLE

PS-8163-00  
PN-8163-00 \*

## I.O.S TELE® STYLE COMPENSATED SADDLE

Increased Oscillation & Sustain. Features accurate intonation points



	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.411	0.300	0.271	2.187
INCHES APPROX.	55/64	5/16	17/64	2 3/16
MILLIMETRES	21.66	7.62	6.88	55.55

PS-8000-0E



## ELECTRICALLY CONDUCTIVE STRAT® / TELE® STYLE

Fit most import Strat® and Tele® styles

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PS-8001-00  
PN-8001-00 \*



## OFFSET STRAT® / TELE® STYLE

Fit most vintage and vintage re-issue Strat® and Tele® styles

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PS-8108-00



## ADJUSTABLE BARREL SADDLE

Set contains 3 different height saddles. Measure for highest saddle

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.407	0.312	0.312	2.050
INCHES APPROX.	13/32	5/16	5/16	2 1/16
MILLIMETRES	10.34	7.92	7.82	52.07

PS-8166-00



## I.O.S TELE® STYLE BARREL SADDLE

Increased Oscillation & Sustain. Fit most import Strat® and Tele® styles

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.443	0.300	0.300	2.209
INCHES APPROX.	7/16	5/16	5/16	2 3/16
MILLIMETRES	11.23	7.62	7.62	56.11

# STRING SAVER ORIGINAL

ghost pickup version\*  
available

PS-8400-00



## ABR-1 TUNE-O-MATIC SADDLES

6 piece

Fits most Gibson® electric guitars with ABR-01 tune-o-matic bridges Pre-1972 guitars and vintage re-issues. The bridge has a small retaining wire running along the top of the intonation screw.

PS-8501-00  
PN-8501-00\*



## RESOMAX® / POST GIBSON® TUNE-O-MATIC SADDLES

6 piece

Gibson® Nashville tune-o-matic style saddles. Fits most Gibson® tune-o-matics made after the year 2000. Fits Resomax® tune-o-matic bridge and TonePros® TP6 bridge.

PS-8616-00



## TUNE-O-MATIC SADDLES

6 piece

Fits many tune-o-matics with SUNG IL, BM002, or AVR I stamped on the underside of the bridge.

PS-8440-00



## TUNE-O-MATIC SADDLES

6 piece

Fits many Badass® and newer Epiphone® style tune-o-matics.

PS-8617-00



## TUNE-O-MATIC SADDLES

6 piece

Fits many TonePros® AVT-II style tune-o-matic bridges with AVT-II stamped on the underside of the bridge. Also fits Pigtail® wrap around bridges.

PS-8500-00



## GIBSON® NASHVILLE STYLE

### TUNE-O-MATIC

6 pieces

Gibson® Nashville tune-o-matic style saddles. Fits most Gibson® tune-o-matics made between 1972 and 2000.

PS-8615-00



## TUNE-O-MATIC SADDLES

6 pieces

Fits many Epiphone® style tune-o-matics with SUNG IL, B2, BH-1993 or Jin-Ah stamped on the underside of the bridge.

PS-8633-00



## TUNE-O-MATIC SADDLES

6 pieces

Fits many Epiphone® style tune-o-matics with SUNG IL, B-2 stamped on the underside of the bridge.

PS-8593-00  
PN-8593-00\*



## TUNE-O-MATIC SADDLES

6 pieces

Fits many PRS® style tune-o-matics. Also fits ResoMax NW bridges.

PS-8503-00



## RESOMAX® / POST GIBSON® BLANK TUNE-O-MATIC SADDLES

6 piece

Gibson® Nashville tune-o-matic style saddles. Fits most Gibson® tune-o-matics made after the year 2000. Fits Resomax® tune-o-matic bridge and TonePros® TP6 bridge.

# STRING SAVER CLASSIC SADDLES

ghost piezo version\*  
available



PG-8000-00



PG-8000-0G



PG-8000-F0



PG-8000-FG



PG-8000-0B



PG-8000-0C



PG-8000-FB



PG-8000-FC

## IMPORT STRAT® /TELE® STYLE

Stainless Steel Saddle, Black, Chrome, Gold 6 pieces  
Fits most import Strat® styles

	LENGTH	THICKNESS	HEIGHT	E TO E
<b>INCHES</b>	0.826	0.410	0.212	2.076
<b>INCHES APPROX.</b>	13/16	13/32	7/32	2 1/16
<b>MILLIMETRES</b>	20.94	10.41	5.38	52.73



PG-8001-0C



PG-8001-00



PG-8001-0G

## VINTAGE STRAT® / TELE® STYLE

Stainless Steel Saddle, Black, Chrome, Gold 6 pieces  
Fits most American Strat® & Squire® styles, 1950-1980

	LENGTH	THICKNESS	HEIGHT	E TO E
<b>INCHES</b>	0.820	0.440	0.230	2.179
<b>INCHES APPROX.</b>	13/16	7/16	7/32	2 3/16
<b>MILLIMETRES</b>	20.83	11.18	5.38	55.35



PG-0080-B,G,C(6,7)  
PN-0080-B,G,C(6,7)\*

## STRAT® /TELE® STYLE OFFSET

Stainless Steel Saddle, Black, Chrome, 6 pieces Offset screw  
Fits most American Strat® Plus, Ultra & Standard styles.

	LENGTH	THICKNESS	HEIGHT	E TO E
<b>INCHES</b>	0.826	0.410	0.212	2.076
<b>INCHES APPROX.</b>	13/16	13/32	7/32	2 1/16
<b>MILLIMETRES</b>	20.94	10.41	5.38	52.73

## FLOYD ROSE® SADDLES

Fits most Floyd Rose® style guitars

ITEM NUM.	COLOR	NUMBER OF SADDLES
PG-0080-B6 PN-0080-B6*	Black	6
PG-0080-B7 PN-0080-B7*		7
PG-0080-C6 PN-0080-C6*	Chrome	6
PG-0080-C7 PN-0080-C7*		7
PG-0080-G6 PN-0080-G6*	Gold	6
PG-0080-G7 PN-0080-G7*		7

# STRING SAVER BASS SADDLES

ghost piezo version\*  
available

PS-8304-00  
PN-8304-00\*



## 4 STRING BASS SADDLE

Precision® style bass saddles. Also fits Jazz® bass.

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.742	0.342	0.342	2.226
INCHES APPROX.	3/4	11/32	11/32	2 1/16
MILLIMETRES	18.85	8.68	8.68	56.55

PS-8305-00  
PN-8305-00\*



## 5 STRING BASS SADDLE

Precision® style bass saddles. Also fits Jazz® bass.

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.742	0.342	0.342	2.968
INCHES APPROX.	3/4	11/32	11/32	2 7/32
MILLIMETRES	18.85	8.68	8.68	75.40

PS-8315-00  
PN-8315-00\*



## 5 STRING BASS PRECISION® / JAZZ® STYLE SADDLE

Precision® style bass saddles. Also fits Jazz® bass.

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.593	0.346	0.346	2.373
INCHES APPROX.	19/32	11/32	11/32	2 3/8
MILLIMETRES	15.07	8.78	8.78	60.28

PS-8316-00  
PN-8316-00\*



## 6 STRING BASS PRECISION® / JAZZ® STYLE SADDLE

Precision® style bass saddles. Also fits Jazz® bass.

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.604	0.343	0.337	3.000
INCHES APPROX.	19/32	11/32	11/32	3
MILLIMETRES	15.34	8.71	8.56	76.2





## WHAT IS RESOMAX?

The ResoMax Harmonic Bridge System is made from our proprietary lightweight ResoMax alloy designed to have your guitar bursting with harmonics. Our exclusive Auto-Lock feature secures the bridges and tailpieces to your guitar, magnetically with no tools to use or lose.

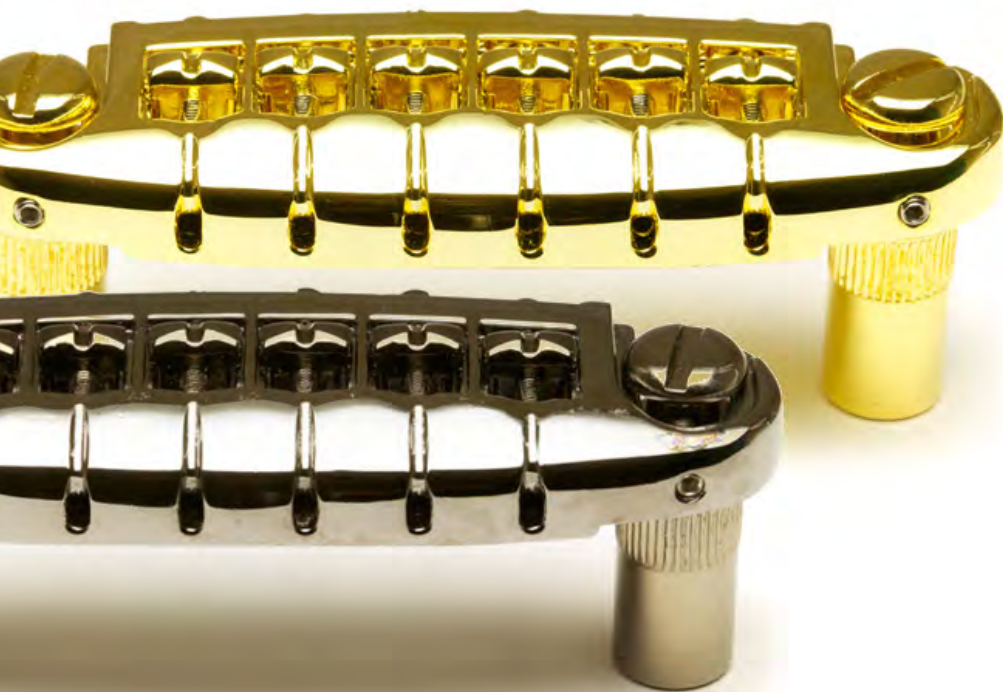
All ResoMax bridges are triple plated for years of durability and good looks. Most other bridges and tailpieces on the market today are made from Zinc.

Zinc became the choice of the die-casting industry in many industries, as the molds to make parts last 10 times longer. The material is cheaper and overall costs are much cheaper to manufacture. There has been no regard to guitar tone...until now.

## HOW DO THEY SOUND?

We took the opposite approach: made a bridge designed for tone with a saddle that fits tight for superior coupling. And then we figured out how to manufacture it at a great price.

**ResoMax bridges maximize harmonic content & richness, and will leave every note dripping in tone.**







ResoMax Alloy Saddles are made from the same harmonically rich alloy as our bridges. This will keep the 2KHz bite of a metal saddle with added harmonic content. Triple plated for durability and good looks. Have your guitar with sound, play and looks it's best.



String Saver Saddles are made with a unique combination of materials made to enhance tone, virtually eliminate string breakage. They have a more balanced sound over standard saddles, with sizzling highs, full mids and big open lows.



Ghost Pickup Saddles are our String Saver Saddles equipped with our custom made piezo's. Combined with our Acoustic-phonic pre-amp you will get a truly stunning acoustic sound at the flick of a switch.



The patented Auto-Lock uses a magnetic system, that does not interfere with functionality of the pickups, to lock the tail piece and bridge to the posts. No tools required.

We offer our ResoMax tune-o-matic bridges with three different saddle options to suit any player's needs and wants.

## HIGHLIGHTS

- Lightweight, high strength alloy that boosts harmonic content.
- Auto-Lock magnetically locks the bridge with no tool to make restringing quick and simple.
- Triple plated for a durable and beautiful finish.
- Different saddle options for all of our bridges. String Savers Saddles, our ResoMax Alloy Saddles and also our Ghost Pickups for acoustic and midi functions.
- Curvy and smooth contours for a comfortable feel and palm muting.
- Increased harmonic content leaves your guitar dripping with tone.

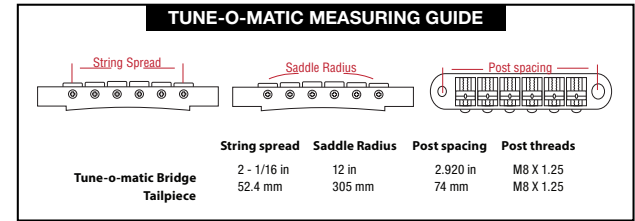
## TESTIMONIALS



"I have installed the 3 bridges you sent out on my two main Les Pauls and my 335. I must say they are incredible!!!!!! The 335 has never sounded better. Very happy with the product and thank you."

Devin Bronson - Lead Guitarist, Avril Lavigne, David Cook



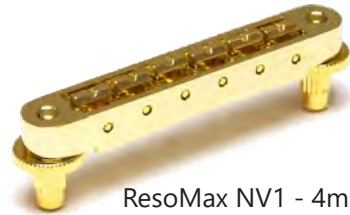


## NV1

TUNE-O-MATIC



The ResoMax NV1 comes equipped with our alloy saddles. They retain the 2 KHz bite of a metal saddle while boosting the harmonic content. They also keep the vintage look of your guitar.



ResoMax NV1 - 4mm  
PM-8843-G0

MODEL	FINISH	DESCRIPTION
PM-8843-BN	black nickel	ResoMax NV1 Tune-O-Matic Bridge 4mm Loaded With <a href="#">ResoMax Saddles</a>
PM-8843-C0	chrome	
PM-8843-G0	gold	
PM-8843-N0	nickel	

## NV1

TUNE-O-MATIC



ResoMax NV1 - 6mm  
PM-8863-N0

MODEL	FINISH	DESCRIPTION
PM-8863-BN	black nickel	ResoMax NV1 Tune-O-Matic Bridge 6mm Loaded With <a href="#">ResoMax Saddles</a>
PM-8863-C0	chrome	
PM-8863-G0	gold	
PM-8863-N0	nickel	



## NV2

TUNE-O-MATIC



The ResoMax NV2 comes loaded with our String Saver Saddles. Impregnated with PTFE, the slipperiest substance on earth, they will dramatically reduce string breakage and improve tuning stability. Balanced tone, sizzling highs, gull mids and big open lows.



ResoMax NV2 - 4mm  
PS-8843-BN

MODEL	FINISH	DESCRIPTION
PS-8843-BN	black nickel	ResoMax NV2 Tune-O-Matic Bridge 4mm Loaded With <a href="#">STRING SAVER Saddles</a>
PS-8843-C0	chrome	
PS-8843-G0	gold	
PS-8843-N0	nickel	

## NV2

TUNE-O-MATIC



ResoMax NV2 - 6mm  
PS-8863-C0

MODEL	FINISH	DESCRIPTION
PS-8863-BN	black nickel	ResoMax NV2 Tune-O-Matic Bridge 6mm Loaded With <a href="#">STRING SAVER Saddles</a>
PS-8863-C0	chrome	
PS-8863-G0	gold	
PS-8863-N0	nickel	

**ALL RESOMAX BRIDGES & TAILPIECES  
MAGNETICALLY LOCK ON.  
NO TOOLS TO USE.**

**NW1**  
WRAPAROUND



ResoMax NW1  
PM-8593-N0

MODEL	FINISH	DESCRIPTION
PM-8593-BN	black nickel	ResoMax NW1 Wraparound
PM-8593-C0	chrome	Magnetic Bridge loaded with
PM-8593-G0	gold	<a href="#">ResoMax Saddles</a>
PM-8593-N0	nickel	

**NW2**  
WRAPAROUND



ResoMax NW2  
PS-8593-BN

MODEL	FINISH	DESCRIPTION
PS-8593-BN	black nickel	ResoMax NW2 Wraparound
PS-8593-C0	chrome	Magnetic Bridge loaded with
PS-8593-G0	gold	<a href="#">STRING SAVER Saddles</a>
PS-8593-N0	nickel	

**NVT**  
TAILPIECE



ResoMax NVT  
PS-8893-G0

MODEL	FINISH	DESCRIPTION
PS-8893-BN	black nickel	ResoMax NVT Tune-O-Matic
PS-8893-C0	chrome	Magnetic Tailpiece
PS-8893-G0	gold	
PS-8893-N0	nickel	

**SONIC 1**  
WRAPAROUND



ResoMax NVT  
PS-8893-G0

MODEL	FINISH	DESCRIPTION
PM-8893-BN	black nickel	ResoMax one-piece
PM-8893-C0	chrome	non-adjustable
PM-8893-G0	gold	Wraparound Sonic 1
PM-8893-N0	nickel	

# THE GRAPH TECH ARCHTOP BRIDGE

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**Big warm open tones – beautiful vibrational transfer**

**Available in standard and ultra-low height base**

**For Archtops and Flat top guitars**





## RESOMAX ARCHTOP BRIDGE STANDARD AND LOW PROFILE

MODEL	FINISH	DESCRIPTION
PS-7551-N0 PS-7551-G0	nickel gold	Standard base height
PS-7552-N0 PS-7552-G0	nickel gold	Low base height





**ghost**<sup>®</sup>  
modular pickup systems

# PLAY THE IMPOSSIBLE!

Ghost<sup>®</sup> Saddle Pickups : Amazing tone with the piezo quack

## ACOUSTI-PHONIC<sup>®</sup> PRE AMP

Acoustic tone at a flick of a Switch

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## HEXPANDER PRE AMP

Your ticket to a Midi tone universe

# WHAT IS GHOST?

The Ghost® system is a set of modular components that adds acoustic or MIDI capability to your guitar without altering your magnetic pickup tone. Ghost® pickups—encapsulated in bridge saddles provide the input signal for the Ghost® system, leaving your magnetic pickups unchanged. You can add either acoustic or MIDI capability or both, and choose one, a few, or all of the optional controls.

## Acousti-Phonic® Pre-amp—Studio-quality acoustic tone, from your electric or bass guitar.

Replace your current saddles with Graph Tech's ghost® modular pickups and Acousti-Phonic® preamp and you'll have instant access to authentic, acoustic sounds from your electric or bass guitar, without altering the tone of your electric pickups.

With the Acousti-Phonic ghost® system you can "plug & play" electric and acoustic separately or blend them together for an infinite range of new and exciting sounds. Customize your guitar to the max with cool features to meet all your performance needs.

## HIGHLIGHTS

- Captures the natural acoustics of your electric guitar producing a warm, rich organic tone
- Can be amplified or recorded directly—eliminates feedback or mic placement problems
- On board Ghost® pickup trim pot to adjust the magnetic/acoustic mix
- Automatically detects and selects (single amp) or stereo (dual amp) operation
- Clean, hidden installation
- Over 500 hours of battery life

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# ENTER THE WORLD OF MIDI.

## Hexpander-Pre-amp— Add MIDI capability to almost any guitar or bass using innovative Ghost® technology

The Ghost® Hexpander MIDI Interface System adds MIDI capability to almost any guitar or bass. Plug your guitar into pitch-to-MIDI converters by Roland® or Axon® and enter the MIDI sound universe. The Hexpander MIDI Interface provides responsive and accurate tracking unequalled by any other system on the market today.

With the Ghost® "plug & play" you can customize your guitar simply or to the max with cool features! Check out how affordable, and easy it can be to make MIDI a part of your music making repertoire.

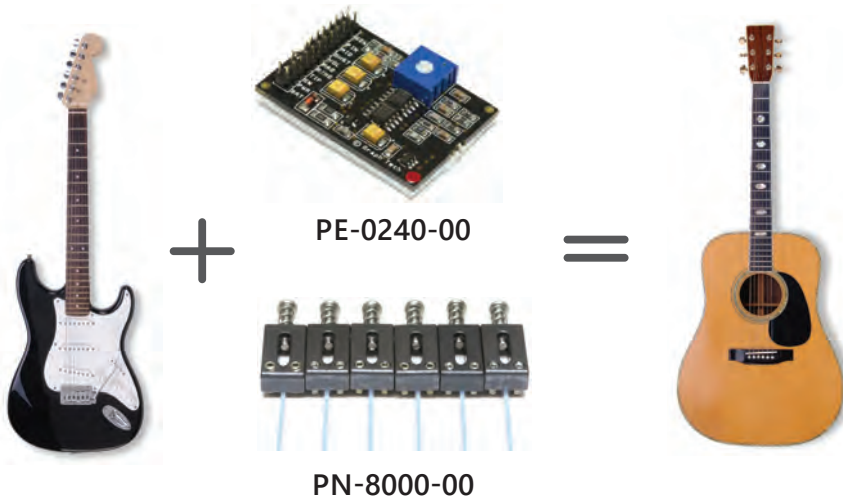
## Combine the Acousti-Phonic® and Hexpander Preamps

Like the idea of the Ghost® Acousti-Phonic? Love the possibilities of the Ghost® Hexpander? Why not combine the Acousti-Phonic and Hexpander preamps together and have an infinite range of sound possibilities right at your fingertips. These innovative preamp boards connect together, like LEGO® for an easy install. If a small footprint for man but a giant leap for your music!

## HIGHLIGHTS

- Fast, accurate tracking
- Clean, hidden installation
- Traktion™ switch to optimize performance
- Low-latency design perfectly complements today's state of the art pitch-to-MIDI converters
- Operates with the latest MIDI converters and Virtual Guitar systems: Boss® SY-1000, Roland® GR55, VG99, String Port as well as legacy units such as the Roland® GR33, GI-20, and V Bass, Axon® AX-50, AX-100, Yamaha® G50, and many more.

## ACOUSTI-PHONIC® PREAMP AND GHOST® PICKUPS



## WHAT DO I NEED?

### GHOST LOADED BRIDGE



PN-8863-C0

### GHOST LOADED PICKUP SADDLES



PN-8000-00

### ACOUSTI-PHONIC PREAMP KIT



PE-0240-00

A set of ghost loaded piezo pickups or ghost loaded bridge assembly (see pages 54-55) along with one of our Acousti-Phonic® preamp kits will complete your system.

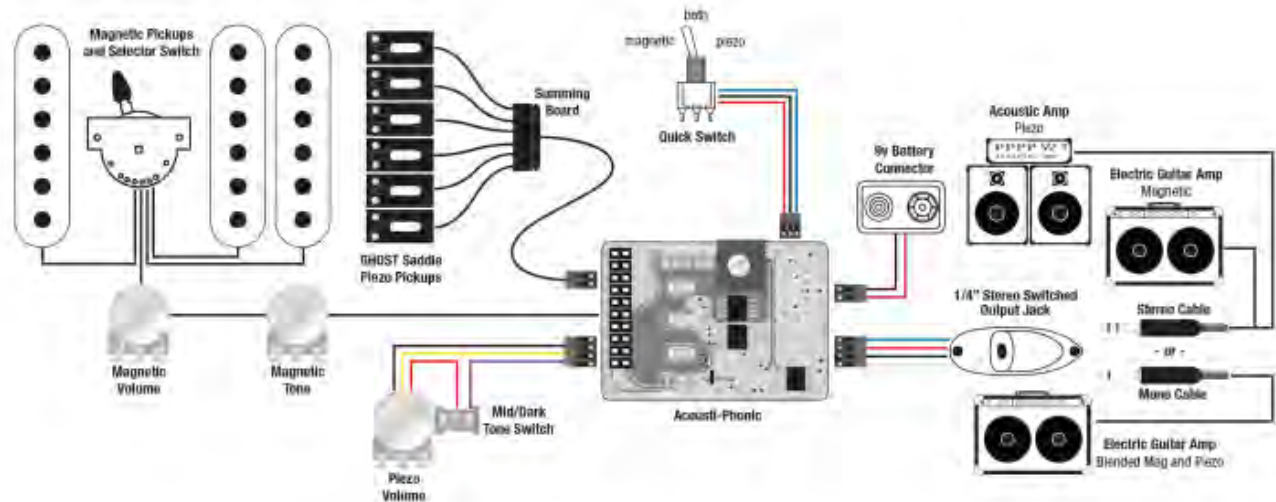
Pickups vary by guitar type. To ensure the perfect match order pickups separately from ghost preamp kits.

## HOW TO SET IT UP?

### Optional Quick Switch

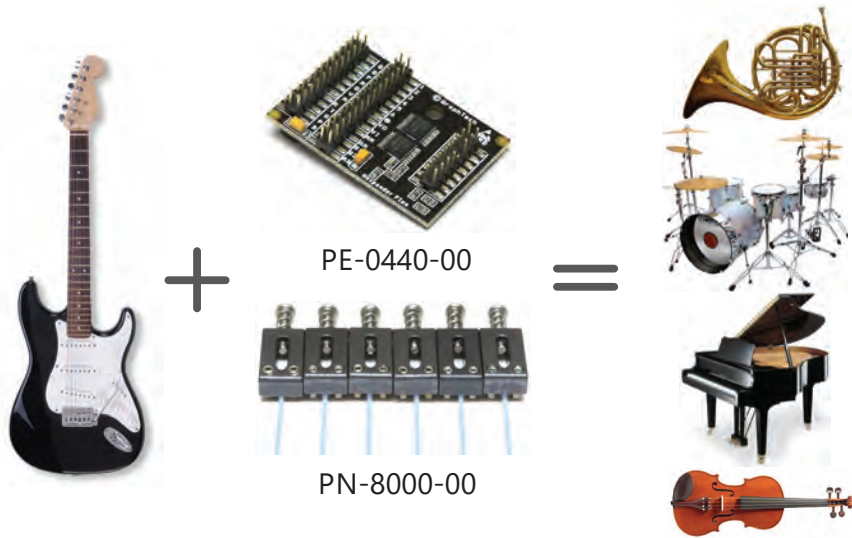
Plugged into the Acousti-Phonic, it lets you instantly select magnetic, piezo, or both blended together, without adjusting volume controls.

\* Included in Acousti-Phonic® Advanced Kit.





## GHOST® HEXPANDER PREAMP AND GHOST® PICKUPS



## WHAT DO I NEED?

### GHOST LOADED BRIDGE



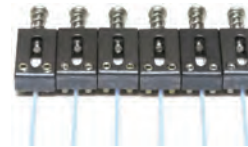
PN-8863-C0

### HEXPANDER PREAMP KIT



PE-0440-00

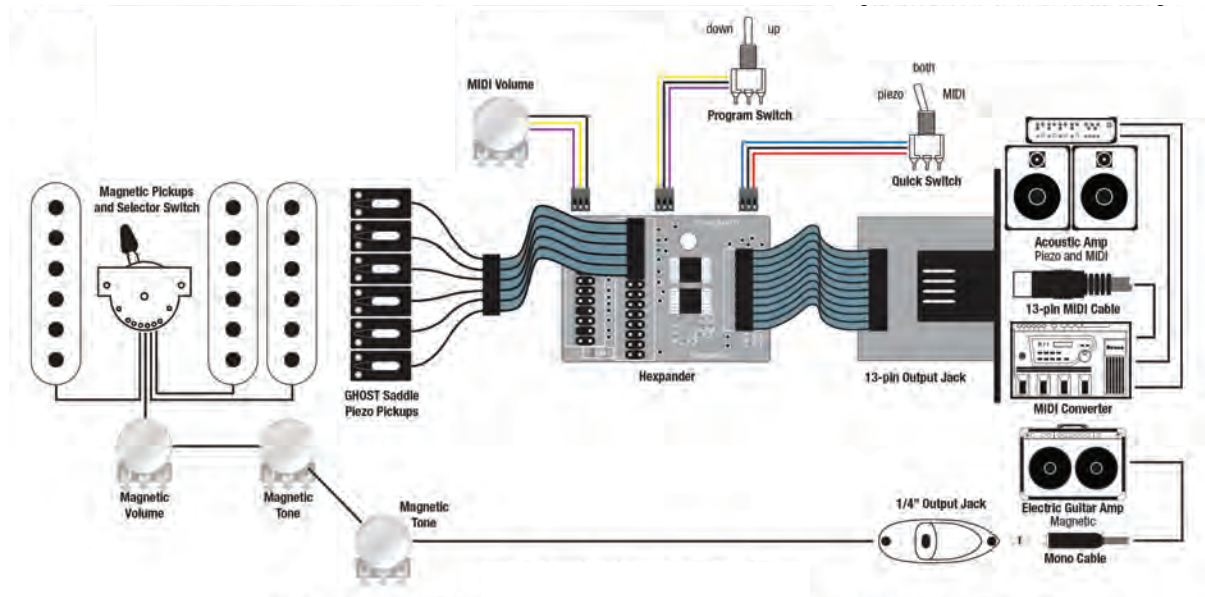
### GHOST LOADED PICKUP SADDLES



PN-8000-00

A set of ghost loaded piezo pickups or a ghost loaded bridge assembly (see pages 54-55) along with one of our Hexpander preamp kits will complete your system. Pickups are different for every type of guitar so they are always ordered separately from the preamp kits.

**Optional Program and Quick Switch** included in Hexpander Advanced Kit. Note: 13pin MIDI cable and converter must be purchased separately through music stores.



# ghost® SADDLE PICKUPS

modular pickup systems

PN-8000-00



## IMPORT STRAT® / TELE® STYLE PIEZO SADDLE

Fits most import Strat® style.  
Fits American Strat® style with slight gap

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PN-8000-F0



## VINTAGE STRAT® & TELE® STYLE

Fits most vintage and vintage re-issue Strat® and Tele® styles

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.820	0.440	0.230	2.179
INCHES APPROX.	13/16	7/16	7/32	2 3/16
MILLIMETRES	20.83	11.18	5.84	55.35

PN-8001-00



## OFFSET STRAT® & TELE® STYLE

Fits Strat® and Tele® styles with an offset intonation

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PN-8220-00



## PRS® (PAUL REED SMITH) STYLE PIEZO SADDLE

Fits many PRS® style guitars. Slightly lower than our PN-8000-00

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.815	0.410	0.230	2.076
INCHES APPROX.	13/16	13/32	7/32	2 1/16
MILLIMETRES	20.70	10.41	5.84	52.73

PN-8200-00



## WILKINSON® STYLE PIEZO SADDLE

Set contains 3 different height saddles. Measure for highest saddle

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.250	0.390	0.250	variable
INCHES APPROX.	1 1/4	3/8	1/4	variable
MILLIMETRES	31.75	9.91	6.35	variable

PN-8163-00



## I.O.S TELE® STYLE BARREL SADDLE

Increased Oscillation & Sustain. Features accurate intonation points

	LENGTH	THICKNESS	HEIGHT	E TO E
INCHES	0.411	0.300	0.271	2.187
INCHES APPROX.	55/64	5/16	17/64	2 3/16
MILLIMETRES	21.66	7.62	6.88	55.55

PN-8370-04(4 strings)

PN-8370-05(5 strings)



## GHOST HIPSHOT PICKUPS

	LENGTH	THICKNESS	HEIGHT	G TO E
INCHES	0.543	0.246	0.231	N/A
INCHES APPROX.	35/64	1/4	15/64	N/A
MILLIMETRES	13.78	6.25	5.88	N/A

PN-8364-00 (4 strings)

PN-8365-00 (5 strings)



## GHOST ABM PICKUPS

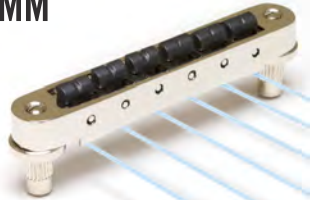
	LENGTH	THICKNESS	HEIGHT	B TO G
INCHES	0.475	0.157	0.315	N/A
INCHES APPROX.	15/32	5/32	5/16	N/A
MILLIMETRES	12.00	4.00	8.00	N/A

\*For more options, please check our website

# ghost<sup>®</sup> LOADED BRIDGES

modular pickup systems

## GHOST ROSEMAX NV 4MM



### RESOMAX TUNE-O-MATIC BRIDGE 4MM LOADED WITH GHOST PIEZO SADDLES

PN-8843-BN                      black nickel  
 PN-8843-C0                    chrome  
 PN-8843-G0                    gold  
 PN-8843-N0                    nickel

## GHOST RESOMAX NV 6MM



### RESOMAX TUNE-O-MATIC BRIDGE 6MM LOADED WITH GHOST PIEZO SADDLES

PN-8863-BN                      black nickel  
 PN-8863-C0                    chrome  
 PN-8863-G0                    gold  
 PN-8863-N0                    nickel

## GHOST RESOMAX WRAP



### RESOMAX NW2 WRAPAROUND BRIDGE LOADED WITH GHOST PIEZO SADDLES

PN-8593-BN                      black nickel  
 PN-8593-C0                    chrome  
 PN-8593-G0                    gold  
 PN-8593-N0                    nickel

## GHOST LB63



### GHOST LB63 LOCKING BRIDGE

PN-0080-B0                      black  
 PN-0080-C0                    chrome  
 PN-0080-G0                    gold

## GHOST HIPSHOT BASS BRIDGE



### GHOST LOADED HIPSHOT A STYLE BASS BRIDGE - 5 STRINGS

PN-8370-C5                      chrome  
 PN-8370-G5                    gold

## GHOST HIPSHOT BASS BRIDGE



### GHOST LOADED HIPSHOT A STYLE BASS BRIDGE - 4 STRINGS

PN-8370-B4                      black  
 PN-8370-C4                    chrome  
 PN-8370-G4                    gold

\*For more options, please check our website

# GHOST® ACOUSTI-PHONIC® PREAMPS

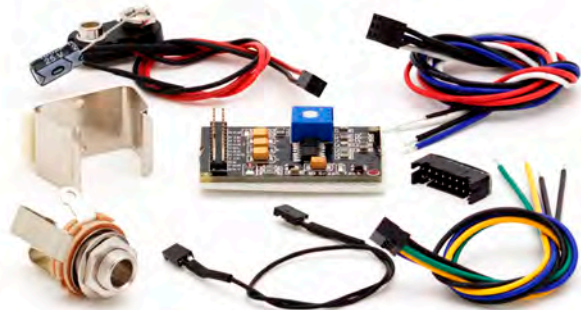


modular pickup systems

## GHOST® ACOUSTI-PHONIC® FOR GUITAR

PICK UPS NOT INCLUDED

### PE-0240-00



#### PE-0240-00 INCLUDES:

- BD-0240-00 Acousti-Phonic® preamp
- BD-0103-01 Switchcraft Stereo Switched Output Jack
- BD-5003-00 Stereo Output Jack Cable Assembly (R-W-Bu harness, connects jack to pre-amp)
- BD-5002-00 Acoustic Volume Cable Assembly (Vi-Y-Gn harness, connects volume pot and mag system to pre-amp)
- BD-0204-00 Battery Connector (connects 9v to pre-amp)
- BD-0205-00 Battery Holder (metal clip that holds 9V battery)
- BD-5017-00 Ghost Pickup Summing Board
- BD-5021-00 Ghost Dual Connector Cable

#### ADDITIONAL OPTIONS

##### PE-0111-00

Quick Switch



##### PE-0206-00

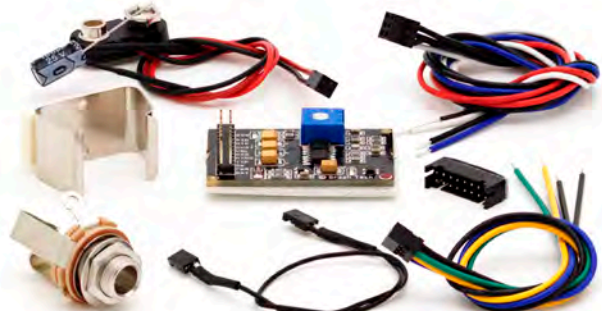
Acoustic Volume with Mid/Dark



## GHOST® ACOUSTI-PHONIC® FOR BASS

PICK UPS NOT INCLUDED

### PE-0340-00



#### PE-0340-00 INCLUDES:

- BD-0340-00 Acousti-Phonic® preamp
- BD-0103-01 Switchcraft Stereo Switched Output Jack
- BD-5003-00 Stereo Output Jack Cable Assembly (R-W-Bu harness, connects jack to pre-amp)
- BD-5002-00 Acoustic Volume Cable Assembly (Vi-Y-Gn harness, connects volume pot and mag system to pre-amp)
- BD-0204-00 Battery Connector (connects 9v to pre-amp)
- BD-0205-00 Battery Holder (metal clip that holds 9V battery)
- BD-5017-00 Ghost Pickup Summing Board
- BD-5021-00 Ghost Dual Connector Cable

#### ADDITIONAL OPTIONS

##### PE-0111-00

Quick Switch



##### PE-0206-00

Acoustic Volume with Mid/Dark



# GHOST® ACOUSTI-PHONIC® KITS - INCLUDES ADDITIONAL OPTIONS

## GHOST® ACOUSTI-PHONIC® KIT FOR GUITAR

INCLUDES ADDITIONAL OPTIONS / PICK UPS NOT INCLUDED

**PK-0240-00**



**BD-0240-00** ACOUSTI-PHONIC® INTELLIGENT PREAMP +

- BD-0103-01 Switchcraft Stereo Switched Output Jack
- BD-5003-00 Stereo Output Jack Cable Assembly (R-W-Bu harness, connects jack to pre-amp)
- BD-5002-00 Acoustic Volume Cable Assembly (Vi-Y-Gn harness, connects volume pot and mag system to pre-amp)
- PE-5017-00 Ghost Pickup Summing Board
- PE-5021-00 Ghost Dual Connector Cable
- BD-0204-00 Battery Connector (connects 9V to pre-amp)
- BD-0205-00 Battery Holder (metal clip that holds 9V battery)
- PE-0111-00 QuickSwitch for mag/both/acoustic
- PE-0206-00 Acoustic Volume Pot with Mid/Dark Switch
- PE-5017-00 Ghost Pickup Summing Board
- PE-5021-00 Ghost Dual Connector Cable

## GHOST® ACOUSTI-PHONIC® KIT FOR BASS

INCLUDES ADDITIONAL OPTIONS / PICK UPS NOT INCLUDED

**PK-0340-00**



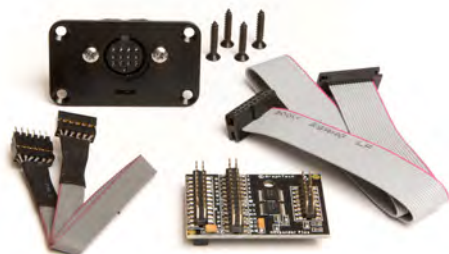
**BD-0340-00** ACOUSTI-PHONIC® INTELLIGENT PREAMP +

- BD-0103-01 Switchcraft Stereo Switched Output Jack
- BD-5003-00 Stereo Output Jack Cable Assembly (R-W-Bu harness, connects jack to pre-amp)
- BD-5002-00 Acoustic Volume Cable Assembly (Vi-Y-Gn harness, connects volume pot and mag system to pre-amp)
- PE-5017-00 Ghost Pickup Summing Board
- PE-5021-00 Ghost Dual Connector Cable
- BD-0204-00 Battery Connector (connects 9V to pre-amp)
- BD-0205-00 Battery Holder (metal clip that holds 9V battery)
- PE-0111-00 QuickSwitch for mag/both/acoustic
- PE-0206-00 Acoustic Volume Pot with Mid/Dark Switch
- PE-5017-00 Ghost Pickup Summing Board
- PE-5021-00 Ghost Dual Connector Cable

## GHOST® HEXPANDER MIDI INTERFACE FOR GUITAR AND BASS

PICK UPS NOT INCLUDED

**PE-0440-00**



**PE-0440-00** INCLUDES:

- BD-0440-00 Hexpander MIDI interface
- BD-0540-00 13-pin Output Jack and Plate
- BD-0512-00 Interface Wiring Harness
- BD-0511-00 Extension Wiring Harness

## ADDITIONAL OPTIONS



**PE-0181-00**  
HEXPANDER  
MIDI VOLUME



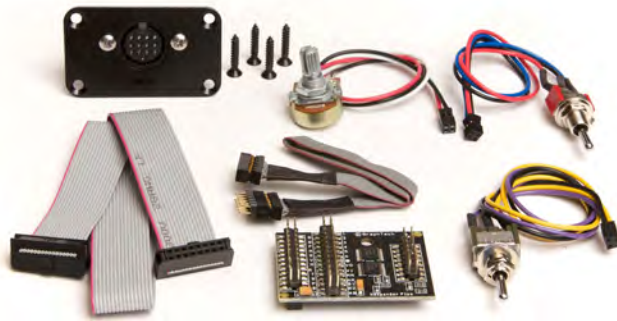
**PE-0111-00**  
QUICK  
SWITCH



**PE-0180-00**  
PROGRAM  
UP/DOWN

**GHOST® HEXPANDER MIDI INTERFACE KIT FOR GUITAR AND BASS**  
 INCLUDES ADDITIONAL OPTIONS / PICK UPS NOT INCLUDED

**PK-0440-00**



**PK-0440-00 INCLUDES:**

- BD-0440-00 Hexpander MIDI interface
- BD-0540-00 13-pin Output Jack and Plate
- BD-0512-00 Interface Wiring Harness
- BD-0511-00 Extension Wiring Harness
- PE-0111-00 QuickSwitch for MIDI/both/guitar
- PE-0180-00 Program up/down switch
- PE-0181-00 Hexpander MIDI volume pot

**COMPLETE KITS (ACOUSTI-PHONIC® & HEXPANDER) - THE BEST OF BOTH WORLDS**

**GHOST® COMPLETE KIT FOR GUITAR**  
 PICK UPS NOT INCLUDED

**PK-0680-00**



**PK-0680-00 INCLUDES:**

- PK-0240-00
- PK-0440-00
- (see kit section)

**GHOST® COMPLETE KIT FOR BASS**  
 PICK UPS NOT INCLUDED

**PK-0780-00**



**PK-0780-00 INCLUDES:**

- PK-0340-00
- PK-0440-00
- (see kit section)

# COMPLETE KITS (ACOUSTI-PHONIC® & HEXPANDER) - THE BEST OF BOTH WORLDS

## GHOST® ACOUSTIC MIDI SYSTEM FOR NYLON STRING ACOUSTIC GUITARS

PK-7077-00



### PK-7077-00 INCLUDES:

BN-9277-RU	6 Ghost loaded Pickups with wide String slot
BD-5100-00	Ghost battery Jack assembly
BD-0077-00	Ghost Acoustic Tone control board
BD-0477-00	Ghost Acoustic Hex preamp board
BD-0512-12	Hexpander interface wiring harness
BS-0077-00	Acoustic Pagoda shim
BD-0515-00	13-pin Mounting Plate
BD-0515-10	Lock Washers
BD-0515-20	Machine Screw Nuts Plated
HW-4004-02	Screw Phil Flat Black Alloy
BD-0205-00	Battery holder

## GHOST® ACOUSTIC MIDI SYSTEM FOR STEEL STRING ACOUSTIC GUITARS

PK-8077-00



### PK-8077-00 INCLUDES:

BN-9277-RU	3 Ghost loaded Pickups with Wide String slot
BN-9286-RU	3 Ghost loaded Pickups with Narrow String slot
BD-5100-00	Ghost battery Jack assembly
BD-0077-00	Ghost Acoustic Tone control board
BD-0477-00	Ghost Acoustic Hex preamp board
BD-0512-12	Hexpander interface wiring harness
BS-0077-00	Acoustic Pagoda shim
BD-0515-00	13-pin Mounting Plate
BD-0515-10	Lock Washers
BD-0515-20	Machine Screw Nuts Plated
HW-4004-02	Screw Phil Flat Black Alloy
BD-0205-00	Battery holder

## TESTIMONIALS

"For the longest time, my Strat had a bone nut, because, I thought that was the gold standard for tone and durability. I would break strings occasionally during a gig and didn't really think anything of it. I thought it was just due to the fact that I strum pretty hard. About a year ago, though, I switched to a TUSQ nut to see if I'd like it.

All I can say is WOW! The tone really opened up and had so much more sustain. Not only that, but ever since I had it installed, I have not broken a single string! I will very soon be getting TUSQ nuts and saddles for my acoustics because of this great first impression. Keep up the good work!"

Tim, Guitarist, USA

# HARDWARE

Graph Tech currently has hundreds of sizes of Nuts, Saddles and Bridge Pins in stock. All products listed can be available in your choice of our branded materials.



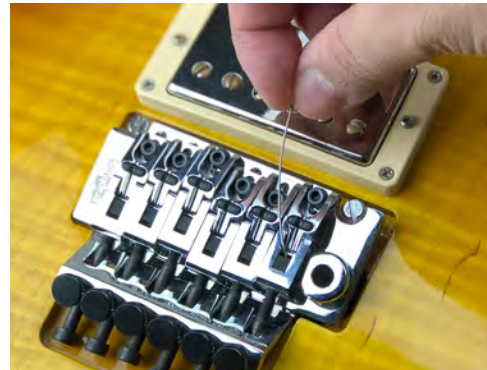
## SAND PAPER



LW-0300-24

**MODEL**  
LW-0300-24

**DESCRIPTION**  
Sand paper self adhesive 1 pcs #240, 2pcs #600 for nuts and saddles



## HARDENED STEEL BLOCKS



LW-1080-05

**MODEL**  
LW-1080-05

**DESCRIPTION**  
Floyd Rose Style steel saddle block (PS-8080-00)



## ALLEN KEYS



LW-0003-00

**MODEL**  
LW-0003-00

**DESCRIPTION**  
Allen key set 1 pcs 3mm, 1 pcs 2.5mm for Floyd Rose used for PG-0080-X0's

**MODEL**  
LW-0105-01

**DESCRIPTION**  
Allen key .050" for String Saver saddles PS-8000-00, PS-8000-F0, PS-8108-00, PS-8304-00

## LB63 TREMOLO ARM



PD-3501-0C

**MODEL**  
PD-3051-0C

**DESCRIPTION**  
LB63 Tremolo Arm 1 pcs

## TAMARIND WOOD KNOBS



PW-1022-00

**MODEL**  
PW-1022-00

**DESCRIPTION**  
LB63 Tremolo Arm 1 pcs



## SCREWS



LW-1440-02



LW-3440-02

MODEL	DESCRIPTION	QUANTITY
LW-1440-01	SCREW CP SOCKET SET S/S 4/40 X 3/16 / USED FOR: PS-8200-00	12 PC
LW-1440-03	SCREW CP SOCKET SET S/S 4/40 X 1/4 / USED FOR: PS-8220-00, PG-8220-X0	12 PC
LW-1440-04	SCREW CP SOCKET SET S/S 4/40 X 3/8 / USED FOR: PS-8108-00, PS-8166-00, PS-8163-00	12 PC
LW-1440-06	SCREW CP SOCKET SET S/S 4-40 X 1/2 / USED FOR: PS-8200-00, PS-8304-00	12 PC
LW-3440-02	SCREW PHIL PAN S/S 4/40 X 5/8 / USED FOR: PS-8000-00, PS-8000-F0, PS-8001-00, PS-8108-00, PS-8220-00, PS-8102-00, PG-8000-00, PG-8000-F0, PG-8001-00, PG-8220-00	6 PC
LW-3440-04	SCREW PHIL PAN S/S 4/40X3/4 S/S / USED FOR: PS-8100-00, PS-8101-00, PG-8100-00, PG-8101-00	6 PC
LW-3440-05	SCREW PHIL PAN S/S 4/40 X 1-1/4 / USED FOR: PS-8166-00	6 PC
LW-3440-07	SCREW PHIL PAN S/S 4-40 X 1-3/4 / USED FOR: PS-8304-00, PS-8305-00, PS-8315-00	6 PC
LW-3632-01	SCREW PHIL PAN S/S 6-32X1.25 / USED FOR: PS-8103-00, PS-8133-00, PS-8163-00	6 PC

## SPRINGS



LW-9410-01

MODEL	DESCRIPTION	QUANTITY
LW-9095-01	SPRING MEDIUM NARROW .950X.170 / USED FOR: PS-8166-00	12 PC
LW-9095-02	SPRING MEDIUM WIDE .950X.195 / USED FOR: PS-8103-00, PS-8133-00, PS-8163-00	12 PC
LW-9140-01	SPRING LONG NARROW 1.400X.170 / USED FOR: PS-8304-00, PS-8305-00, PS-8315-00	12 PC
LW-9410-01	SPRING SMALL.410X.170 / USED FOR: PS-8000-F0, PS-8000-00, PS-8100-00, PS-8102-00, PS8001-00, PS-8108-00, PS-8220-00, PG-8000-00, PG-8000-F0, PG-8001-00, PG-8220-00	12 PC

# REVIEWS



Music Inc. - May 2013

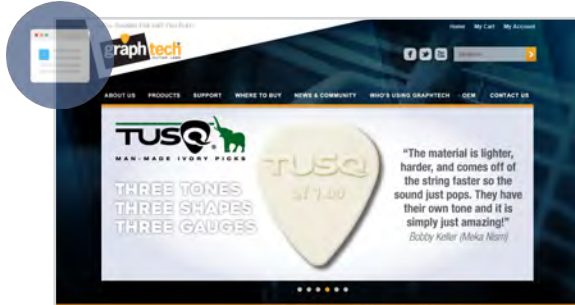


Surrey /North Delta Leader - February 2013

# GRAPH TECH ADVERTISING



# WEB



www.graphtech.com



www.youtube.com/GraphTechGuitarLabs

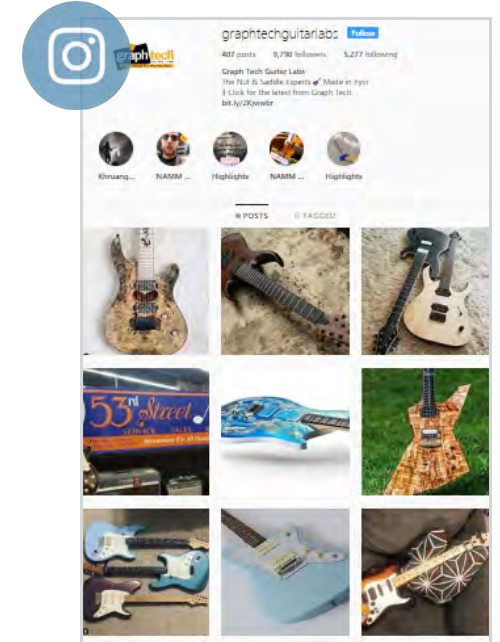
# SOCIAL MEDIA



www.facebook.com/GraphTech








twitter.com/graphtechguitar @graphtechguitar



instagram.com/graphtechguitarlabs @graphtechguitarlabs

# CHOOSING THE RIGHT PRODUCT

	GRAPH TECH BRANDS					OTHER MATERIALS			
	 >P08	 >P16	 >P20	 >P24	 >P30	IVORY	MICARTA™	BONE	CORIAN™
Improves Tuning Stability (Permanent lubrication)		●	●		●				
Increases harmonics	●	◐	◐	◐	◐	◐			
Improves tone	●	◐	◐	◐	●	●		◐	
Optimal vibration transfer	●	◐	◐	◐	●				
Consistent quality (No grain or soft spots)	●	●	●	●	●		◐		●
Environmentally friendly	●	●	●	●	●				

# HOW TO ORDER?

## ORDERING IS AS EASY AS 1-2-3

Measure your component. Find the correct size on the sizing guide. Products are sorted by length

1 within each category.

Choose the material you want for your component.





2 Combine material code (below) with product code.

3 Example: BQ (TUSQ) + 2200 = BQ-2200

Call internationally 001-604-940-5353 / +1 800-388-7011

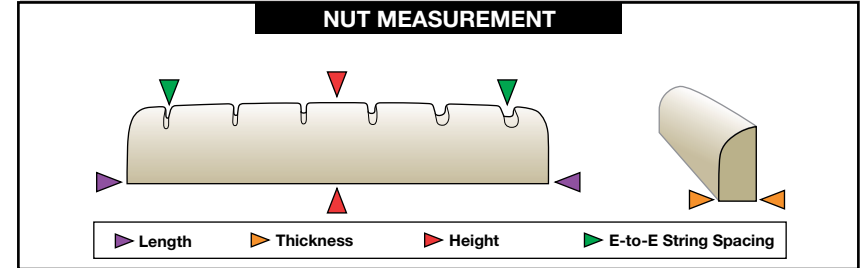
4 In North America call 1-604-940-5353 Monday-Friday 8-3 Pacific Time  
or email [sales@graphtech.com](mailto:sales@graphtech.com)

### MATERIAL CODES

BRAND	SINGLE PACK	BULK
	PQ	BQ
	PQL	BQL
	PT/PS	BT
 <small>Richer Bass Tones and Easier Tuning</small>	PB	BB



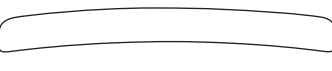
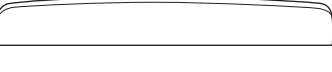
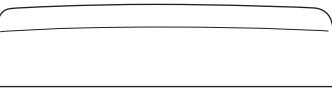
# SIZING GUIDE

Combine material code from P .62 with product code ie. PQ-3000



## BLANK GUITAR NUTS



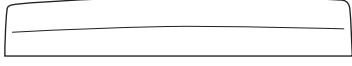
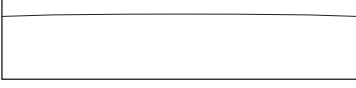
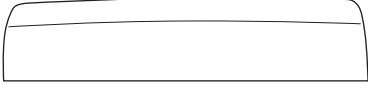

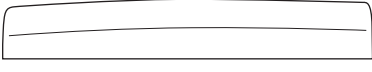

 left-handed option available

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
3000			43.21 mm	4.65 mm	8.43 mm	0.00 mm
			1.701 in	0.183 in	0.332 in	0.000 in
4340	Taylor® Style		44.15 mm	4.78 mm	7.88 mm	37.00 mm
			1.738 in	0.188 in	0.310 in	1.457 in
1000	Fender® Style		44.45 mm	3.12 mm	4.45 mm	0.00 mm
			1.750 in	0.123 in	0.175 in	0.000 in
2200	Fender® Style		44.45 mm	3.17 mm	6.20 mm	0.00 mm
			1.750 in	0.123 in	0.175 in	0.000 in
M145	Martin® Style		44.91 mm	5.36 mm	9.28 mm	0.00 mm
			1.768 in	0.211 in	0.244 in	0.000 in

# BLANK GUITAR NUTS





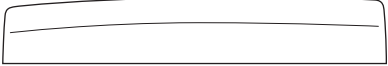





left-handed  
option available

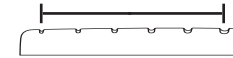
CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
1075	Strat® Style		45.25 mm	3.30 mm	6.75 mm	0.00 mm
			1.782 in	0.130 in	0.266 in	0.000 in
4045	Ibanez® Style		45.50 mm	5.00 mm	10.0 mm	0.00 mm
			1.791 in	0.197 in	0.394 in	0.000 in
4201	Taylor® Style		45.81 mm	4.89 mm	7.88 mm	0.00 mm
			1.804 in	0.193 in	0.310 in	0.00 in
4011	Gibson® Style		47.34mm	4.85 mm	9.19 mm	0.00 mm
			1.864 in	0.191 in	0.362 in	0.00 in
M100	Martin® Style		48.01 mm	5.74 mm	10.67 mm	0.00 mm
			1.890 in	0.226 in	0.420 in	0.000 in
4000			48.39 mm	4.88 mm	9.52 mm	0.00 mm
			1.950 in	0.192 in	0.375 in	0.000 in
4202			48.90 mm	4.90 mm	7.74 mm	0.00 mm
			1.925 in	0.192 in	0.305 in	0.000 in
4061	Epiphone® Style		48.84 mm	6.60 mm	10.59 mm	0.00 mm
			1.837 in	0.260 in	0.417 in	0.000 in

# BLANK GUITAR NUTS



left-handed  
option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 4300			49.17 mm	4.80 mm	7.75 mm	0.00 mm
			1.936 in	0.189 in	0.305 in	0.000 in
M102	Martin® Style		50.70 mm	5.91 mm	8.04 mm	0.00 mm
			1.996 in	0.233 in	0.317 in	0.000 in
M101	Martin® Style		50.71 mm	5.93 mm	8.05 mm	0.00 mm
			1.996 in	0.233 in	0.317 in	0.00 in
4054	Ibanez® Style		54.50 mm	5.00 mm	10.0 mm	0.00 mm
			2.146 in	0.197 in	0.394 in	0.00 in
4025			63.50 mm	6.35 mm	11.10 mm	0.00 mm
			2.500 in	0.250 in	0.437 in	0.000 in
4125			63.50 mm	3.17 mm	7.92 mm	0.00 mm
			2.500 in	0.125 in	0.312 in	0.000 in
4187			63.50 mm	4.75 mm	11.10 mm	0.00 mm
			2.500 in	0.187 in	0.437 in	0.000 in



String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6038			37.89 mm	4.97 mm	8.40 mm	31.07 mm
			1.492 in	0.196 in	0.331 in	1.223 in
5040	Ibanez® Style		40.56 mm	3.47 mm	5.42 mm	32.54 mm
			1.594 in	0.137 in	0.213 in	1.281 in
6041	Yamaha® Style		41.00 mm	4.65 mm	7.86 mm	33.75 mm
			1.614 in	0.183 in	0.309 in	1.329 in
6226			41.15 mm	6.10 mm	5.84 mm	34.67 mm
			1.620 in	0.240 in	0.230 in	1.365 in
5041	Line 6® Style		41.20 mm	3.24 mm	5.71 mm	34.78 mm
			1.622 in	0.128 in	0.225 in	1.369 in
6225			41.39 mm	6.24 mm	8.25 mm	34.77 mm
			1.629 in	0.245 in	0.325 in	1.364 in
6110	Gibson® Style		41.61 mm	6.09 mm	5.48 mm	35.43 mm
			1.638 in	0.240 in	0.216 in	1.395 in
1642			41.90 mm	3.13 mm	7.00 mm	34.75 mm
			1.650 in	0.123 in	0.276 in	1.368 in








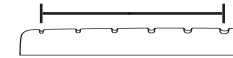
String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6542			41.90 mm	5.13 mm	7.61 mm	34.75 mm
			1.650 in	0.202 in	0.300 in	1.368 in
6342	Locking nut replacement R2 (6342)		41.91 mm	7.36 mm	15.5 mm	34.70 mm
			1.650 in	0.290 in	0.610 in	1.366 in
 1712			41.95 mm	5.19 mm	10.31 mm	34.96 mm
			1.652 in	0.204 in	0.406 in	1.376 in
5042			41.98 mm	3.22 mm	4.98 mm	35.25 mm
			1.653 in	1.127 in	1.196 in	1.388 in
6365			41.98 mm	4.95 mm	6.96 mm	35.05 mm
			1.653 in	0.195 in	0.274 in	1.380 in
 1650			42.01 mm	3.18 mm	7.24 mm	34.95 mm
			1.654 in	0.125 in	0.285 in	1.376 in
 6642	Schecter- esp		42.05 mm	6.00 mm	7.69 mm	34.26 mm
			1.656 in	0.236 in	0.303 in	1.349 in
4234			42.10 mm	3.44 mm	4.35 mm	34.33 mm
			1.657 in	0.135 in	0.171 in	1.352 in

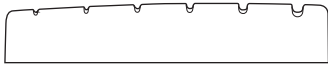
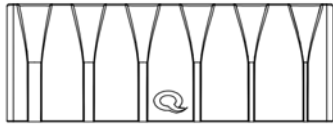

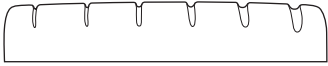


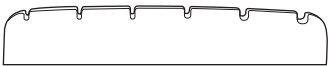




String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6443	Kiesel® Style		42.70 mm	4.77 mm	7.91 mm	34.34 mm
			1.681 in	0.188 in	0.311 in	1.352 in
6343	Locking nut replacement R3/R4		42.72 mm	8.61 mm	15.50 mm	35.94 mm
			1.682 in	0.339 in	0.610 in	1.415 in
5143			42.84 mm	3.50 mm	5.28 mm	37.72 mm
			1.687 in	0.138 in	0.208 in	1.485 in
6273			42.85 mm	5.89 mm	7.88 mm	34.90 mm
			1.687 in	0.232 in	0.310 in	1.374 in
5043			42.88 mm	3.35 mm	4.42 mm	35.08 mm
			1.688 in	0.132 in	0.174 in	1.381 in
6117			42.88 mm	5.04 mm	8.78 mm	34.51 mm
			1.688 in	0.198 in	0.346 in	1.359 in
6543	Line 6® Style		42.89 mm	5.41 mm	7.99 mm	36.12 mm
			1.689 in	0.213 in	0.315 in	1.422 in
 5000	Strat® Style		42.93 mm	3.25 mm	5.03 mm	34.62 mm
			1.690 in	0.128 in	0.198 in	1.363 in


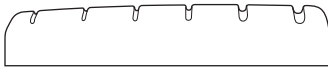

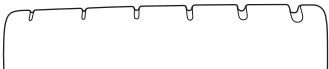









String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 6643			42.95 mm	5.98 mm	7.95 mm	35.22 mm
			1.691 in	0.235 in	0.313 in	1.387 in
 6143			43.00 mm	6.00 mm	8.88 mm	35.00 mm
			1.693 in	0.236 in	0.350 in	1.378 in
6305			43.00 mm	5.00 mm	8.95 mm	34.00 mm
			1.693 in	0.197 in	0.352 in	1.339 in
6420			43.00 mm	5.00 mm	8.76 mm	34.00 mm
			1.693 in	0.197 in	0.345 in	1.339 in
6439			43.00 mm	6.00 mm	9.05 mm	34.65 mm
			1.693 in	0.236 in	0.356 in	1.364 in
 6943			43.00 mm	6.00 mm	9.00 mm	35.00 mm
			1.693 in	0.236 in	0.354 in	1.378 in
6414	Kiesel® Style		43.02 mm	4.70 mm	8.08 mm	34.90 mm
			1.694 in	0.185 in	0.318 in	0.318 in
1720			43.05 mm	5.18 mm	10.24 mm	35.93 mm
			1.695 in	0.204 in	0.403 in	1.415 in


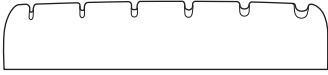

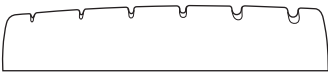
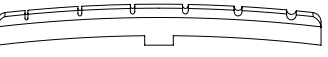

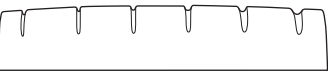







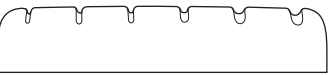


String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 1729			43.05 mm	5.08 mm	9.15 mm	35.10 mm
			1.695 in	0.200 in	0.360 in	1.382 in
 6114	Ovation® Style		43.12 mm	4.83 mm	9.01 mm	34.50 mm
			1.697 in	0.190 in	0.354 in	1.358 in
5072			43.18 mm	3.30 mm	5.41 mm	35.31 mm
			1.700 in	0.130 in	0.213 in	1.390 in
 6116			43.36 mm	4.88 mm	8.41 mm	36.45 mm
			1.707 in	0.192 in	0.331 in	1.435 in
 6115			43.40 mm	4.74 mm	9.75 mm	36.52 mm
			1.709 in	0.187 in	0.384 in	1.438 in
 M600	Martin® Style		43.41 mm	5.79 mm	9.17 mm	35.00 mm
			1.709 in	0.228 in	0.361 in	1.378 in
 6010	Gibson® Style		43.53 mm	4.71 mm	9.37 mm	35.47 mm
			1.714 in	0.185 in	0.369 in	1.396 in
 1728			43.57 mm	5.13 mm	8.53 mm	35.20 mm
			1.735 in	0.20 in	0.336 in	1.386 in


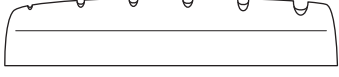






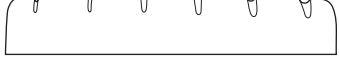
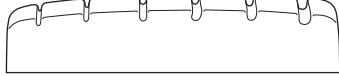



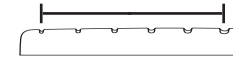
String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
6011	Gibson® Style		43.83 mm	4.69 mm	10.30 mm	35.77 mm
			1.725 in	0.185 in	0.405 in	1.408 in
6061	Epiphone® Style		43.87 mm	6.12 mm	9.59 mm	34.60 mm
			1.727 in	0.241 in	0.377 in	1.362 in
 6060	Epiphone® Style		43.94 mm	6.16 mm	9.08 mm	34.14 mm
			1.730 in	0.243 in	0.357 in	1.344 in
 6060-L0	Epiphone® Style		43.95 mm	6.20 mm	8.98 mm	34.10mm
			1.730 in	0.244 in	0.353 in	1.343 in
6161			43.95 mm	5.94 mm	7.72 mm	35.97 mm
			1.730 in	0.234 in	0.304 in	1.416 in
 6000			44.07 mm	5.22 mm	8.51 mm	35.52 mm
			1.715 in	0.206 in	0.335 in	1.398 in
6012	Washburn® Style		44.14 mm	4.95 mm	10.33 mm	33.22 mm
			1.738 in	0.195 in	0.407 in	1.308 in
M644	Martin® Style		44.32 mm	5.69 mm	9.17 mm	36.02 mm
			1.745 in	0.224 in	0.361 in	1.418 in


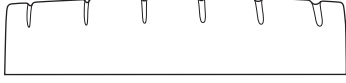

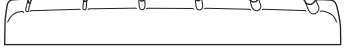

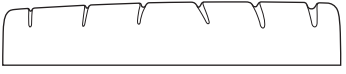



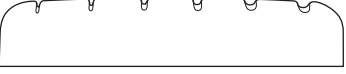



String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 6133			44.45 mm	4.70 mm	9.88 mm	38.02 mm
			1.750 in	0.185 in	0.389 in	1.497 in
 6235	Rainsong® Style		44.45 mm	6.35 mm	6.25 mm	37.62 mm
			1.750 in	0.250 in	0.246 in	1.481 in
6234			44.48 mm	6.30 mm	8.53 mm	37.62 mm
			1.751 in	0.248 in	0.336 in	1.481 in
6400	Gibson® Style		44.60 mm	4.93 mm	8.10 mm	37.26 mm
			1.756 in	0.194 in	0.319 in	1.467 in
5010	Strat® Style Flat Bottom		44.81 mm	3.30 mm	6.48 mm	34.39 mm
			1.764 in	0.130 in	0.255 in	1.354 in
 6134			44.96 mm	4.88 mm	8.41 mm	38.00 mm
			1.770 in	0.192 in	0.331 in	1.496 in
M200	Martin® Style		45.31 mm	4.67 mm	8.84 mm	35.37 mm
			1.784 in	0.184 in	0.348 in	1.393 in
6135			45.72 mm	5.26 mm	8.76 mm	38.10 mm
			1.800 in	0.207 in	0.345 in	1.500 in


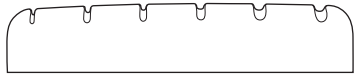

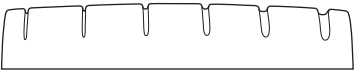

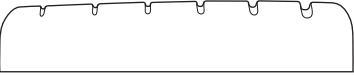
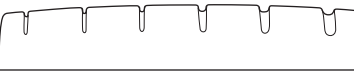


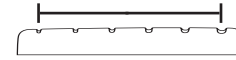
String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED GUITAR NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
 1801			45.80 mm	5.08 mm	8.72 mm	38.56 mm
			1.803 in	0.200 in	0.343 in	1.518 in
6180			45.99 mm	4.65 mm	9.35 mm	37.16 mm
			1.811 in	0.183 in	0.368 in	1.463 in
6136			46.54mm	4.82mm	8.60mm	38.85mm
			1.832in	0.190 in	0.339 in	1.530 in
 M147	Martin® Style		46.71 mm	6.02 mm	8.95 mm	35.24 mm
			1.839 in	0.237 in	0.352 in	1.387 in
6138			48.21 mm	4.80 mm	8.64 mm	40.49 mm
			1.898 in	0.189 in	0.340 in	1.594 in




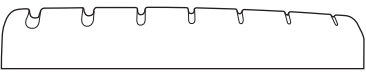



String spacing is measured center to center of outside slots

## SLOTTED GUITAR NUTS: 7-STRING




left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	B TO E
 6718			48.00 mm	6.00 mm	9.08 mm	40.30 mm
			1.890 in	0.236 in	0.357 in	1.586 in
 6748	Schecter® Style		48.00 mm	5.98 mm	8.09 mm	40.08 mm
			1.890 in	0.235 in	0.319 in	1.578 in
6700	Carvin® Style		48.72 mm	4.95 mm	8.66 mm	41.15 mm
			1.918 in	0.195 in	0.341 in	1.620 in

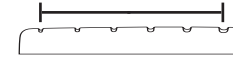
## SLOTTED GUITAR NUTS: 8-STRING



left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	F# TO E
5700	Strat® Style		50.29 mm	3.23 mm	5.64 mm	41.58 mm
			1.980 in	0.127 in	0.222 in	1.637 in





String spacing is measured center to center of outside slots

## SLOTTED GUITAR NUTS: 8-STRING



left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	F# TO E
1354			54.40 mm	6.00 mm	8.90 mm	45.100 mm
			2.142 in	0.236 in	0.350 in	1.78 in
1355	Kiesel® Style		55.35 mm	4.80 mm	8.35 mm	47.450 mm
			2.179 in	0.189 in	0.329 in	1.87 in

## SLOTTED GUITAR NUTS: 12-STRING



left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
1500			44.45 mm	5.05 mm	7.47 mm	38.10 mm
			1.750 in	0.199 in	0.294 in	1.500 in
1545			45.01 mm	6.03 mm	8.68 mm	37.56 mm
			1.772 in	0.237 in	0.342 in	1.479 in
1578			48.18 mm	4.95 mm	8.25 mm	41.40 mm
			1.897 in	0.195 in	0.325 in	1.630 in



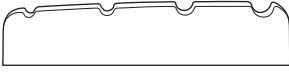
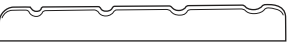



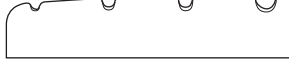



String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED BASS NUTS: 4-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO G
 1238-6			37.94 mm	6.11 mm	9.22 mm	28.57 mm
			1.494 in	0.240 in	0.363 in	1.125 in
1238			37.94 mm	5.06 mm	8.47 mm	30.73 mm
			1.494 in	0.199 in	0.333 in	1.209 in
1239			38.13 mm	3.31 mm	4.62 mm	29.11 mm
			1.501 in	0.130 in	0.182 in	1.416 in
3834			38.30 mm	3.36 mm	6.00 mm	28.79 mm
			1.509 in	0.132 in	0.236 in	1.133 in
1215	Fender Jazz® Style		38.28 mm	3.18 mm	4.75 mm	29.06 mm
			1.506 in	0.125 in	0.187 in	1.143 in
1247	Kiesel® Style		38.60 mm	4.70 mm	8.26 mm	27.05 mm
			1.520 in	0.185 in	0.325 in	1.065 in
1254			38.77 mm	3.28 mm	8.20 mm	30.41 mm
			1.526 in	0.129 in	0.323 in	1.197 in
1214	Fender Jazz® Style		39.47 mm	3.25 mm	4.75 mm	31.06 mm
			1.554 in	0.128 in	0.187 in	1.223 in

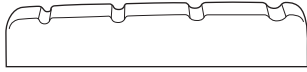

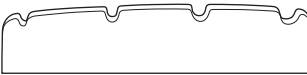
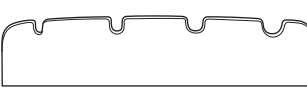

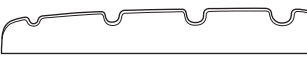
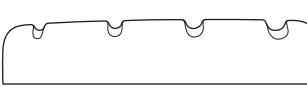
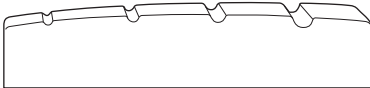


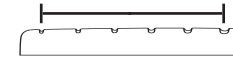
String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED BASS NUTS: 4-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO G
1240			39.92 mm	6.06 mm	8.43 mm	30.00 mm
			1.572 in	0.239 in	0.332 in	1.181 in
1246			39.92 mm	5.98 mm	9.74 mm	30.00 mm
			1.572 in	0.235 in	0.383 in	1.181 in
1212			41.00 mm	4.98 mm	8.99 mm	34.77 mm
			1.614 in	0.196 in	0.354 in	1.369 in
1200			41.02 mm	4.62 mm	8.84 mm	31.09 mm
			1.615 in	0.182 in	0.348 in	1.224 in
1204	Fender® Style		41.91 mm	3.17 mm	4.75 mm	31.75 mm
			1.650 in	0.125 in	0.187 in	1.250 in
1205	Fender® Style		42.00 mm	3.10 mm	5.49 mm	32.13 mm
			1.654 in	0.122 in	0.216 in	1.265 in
1242			42.00 mm	6.00 mm	8.50 mm	31.75 mm
			1.654 in	0.236 in	0.335 in	1.250 in
1244			48.86 mm	12.69 mm	10.03 mm	33.32 mm
			1.924 in	0.500 in	0.395 in	1.312 in



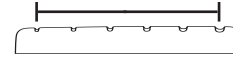
String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED BASS NUTS: 5-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	B TO E
1400			44.83 mm	4.75 mm	8.84 mm	36.45 mm
			1.765 in	0.187 in	0.348 in	1.435 in
1555			44.85 mm	6.06 mm	8.51 mm	36.67 mm
			1.765 in	0.238 in	0.335 in	1.443 in
1445			45.06 mm	6.00 mm	9.50 mm	35.66 mm
			1.774 in	0.236 in	0.374 in	1.404 in
1425			45.72 mm	3.25 mm	7.04 mm	36.58 mm
			1.800 in	0.128 in	0.277 in	1.440 in
1412			46.30 mm	6.40 mm	10.49 mm	37.69 mm
			1.823 in	0.252 in	0.413 in	1.484 in
1418			46.60 mm	3.26 mm	8.30 mm	39.30 mm
			1.835 in	0.128 in	0.327 in	1.547 in
1447	Ibanez® Style		46.92 mm	5.95 mm	8.48 mm	37.92 mm
			1.847 in	0.234 in	0.334 in	1.493 in
1455			53.90 mm	12.88 mm	10.08 mm	36.62 mm
			2.122 in	0.507 in	0.397 in	1.442 in

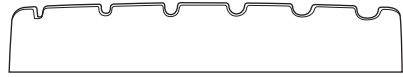
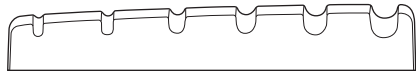




String spacing is measured center to center of outside slots

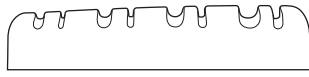


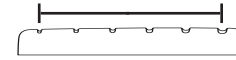
left-handed option available

## SLOTTED BASS NUTS: 6-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO C
1600			51.74 mm	4.78 mm	9.09 mm	43.72 mm
			2.037 in	0.188 in	0.358 in	1.721 in
1653			53.90 mm	6.05 mm	8.89 mm	45.60 mm
			2.122 in	0.238 in	0.350 in	1.795 in
 1654			54.00 mm	5.97 mm	9.09 mm	43.99 mm
			2.126 in	0.235 in	0.358 in	1.732 in

## SLOTTED BASS NUTS: 8-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO G
1340			40.00 mm	5.97 mm	8.54 mm	31.73 mm
			1.575 in	0.235 in	0.336 in	1.249 in



String spacing is measured center to center of outside slots



left-handed option available

## SLOTTED BASS NUTS: 12-STRING

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
1575			44.45 mm	6.27 mm	8.48 mm	37.08 mm
			1.750 in	0.247 in	0.334 in	1.460 in
1568	Ovation® Style		47.63 mm	4.75 mm	8.66 mm	40.13 mm
			1.875 in	0.187 in	0.341 in	1.580 in
1548			47.91 mm	6.11 mm	8.75 mm	40.57 mm
			1.886 in	0.241 in	0.344 in	1.597 in
 1593			49.09 mm	5.21 mm	9.08 mm	42.95 mm
			1.933 in	0.205 in	0.357 in	1.691 in

## CLASSICAL (STOTED) GUITAR NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6217			43.17 mm	5.37 mm	8.84 mm	35.83 mm
			1.700 in	0.211 in	0.348 in	1.411 in
6212			44.91 mm	4.73 mm	8.28 mm	33.89 mm
			1.768 in	0.186 in	0.326 in	1.334 in



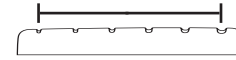
String spacing is measured center to center of outside slots



left-handed option available

## CLASSICAL (STOTED) GUITAR NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6245			45.00 mm	5.50 mm	8.70 mm	34.70 mm
			1.772 in	0.217 in	0.343 in	1.366 in
6248			47.92 mm	4.81 mm	8.41 mm	36.99 mm
			1.887 in	0.189 in	0.331 in	1.456 in
6250			48.01 mm	5.08 mm	10.29 mm	40.39 mm
			1.890 in	0.200 in	0.405 in	1.590 in
6260			49.00 mm	4.93 mm	7.80 mm	40.54 mm
			1.929 in	0.194 in	0.307 in	1.600 in
6240	Kiesel® Style		49.10 mm	4.93 mm	8.30 mm	41.23 mm
			1.933 in	0.194 in	0.327 in	1.623 in
6249			49.95 mm	4.80 mm	8.30 mm	39.60 mm
			1.967 in	0.189 in	0.327 in	1.559 in
6220			50.85 mm	6.38 mm	9.45 mm	41.50 mm
			2.002 in	0.251 in	0.372 in	1.634 in
6202			51.11 mm	5.30 mm	10.51 mm	43.02 mm
			2.012 in	0.209 in	0.414 in	1.694 in

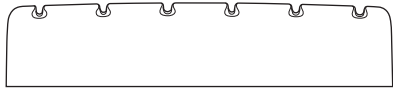
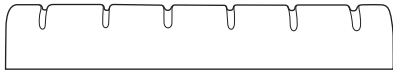
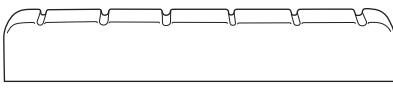

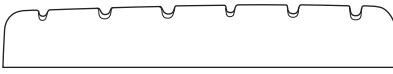

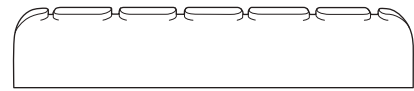


String spacing is measured center to center of outside slots

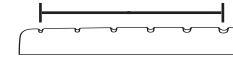


left-handed option available

## CLASSICAL (STOTED) GUITAR NUTS

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
6203	Godin® Style		51.18 mm	5.08 mm	11.08 mm	42.50 mm
			2.015 in	0.200 in	0.436 in	1.673 in
6252			51.46 mm	5.73 mm	8.42 mm	41.61 mm
			2.026 in	0.226 in	0.331 in	1.638 in
6230			51.81 mm	6.08 mm	6.42 mm	43.19 mm
			2.040 in	0.239 in	0.253 in	1.700 in
 6251			51.95 mm	4.81 mm	8.40 mm	40.72 mm
			2.045 in	0.189 in	0.331 in	1.603 in
 6200			52.75 mm	5.93 mm	10.33 mm	43.33 mm
			2.076 in	0.233 in	0.406 in	1.706 in







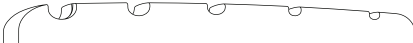



String spacing is measured center to center of outside slots



left-handed option available

## FANNED FRET NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
6649	6 string		43.31 mm	4.77 mm	6.86 mm	35.36 mm
			1.705 in	0.188 in	0.270 in	1.392 in
6771	7 string		48.97 mm	6.22 mm	8.03 mm	
			1.928 in	0.245 in	0.316 in	
4306	4 string BASS		50.40 mm	3.3 mm	5.92 mm	38.71 mm
			1.98 in	0.13 in	0.23 in	1.52 in
6849	8 string		55.19 mm	4.77 mm	7.04 mm	47.83 mm
			2.173 in	0.188 in	0.277 in	1.883 in
5306	5 string BASS		55.51 mm	3.3 mm	6.10 mm	43.42 mm
			2.19 in	0.13 in	0.24 in	1.71 in
6306	6 string BASS		67.38 mm	3.3 mm	6.58 mm	53.50 mm
			2.65 in	0.13 in	0.26 in	2.11 in







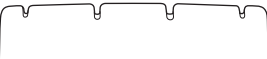
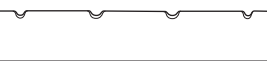


String spacing is measured center to center of outside slots



left-handed option available

# UKULELE NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	A TO G
1235	Martin® Style		34.86 mm	3.18 mm	5.97 mm	28.30 mm
			1.372 in	0.125 in	0.235 in	1.114 in
1253			34.96 mm	5.06 mm	6.96 mm	26.36 mm
			1.376 in	0.199 in	0.274 in	1.038 in
1278			34.96 mm	5.08 mm	7.95 mm	26.37 mm
			1.376 in	0.200 in	0.313 in	1.038 in
1256			34.97 mm	5.11 mm	10.95 mm	27.68 mm
			1.377 in	0.201 in	0.431 in	1.090 in
1234			35.08 mm	4.98 mm	6.00 mm	27.20 mm
			1.381 in	0.196 in	0.236 in	1.071 in
1243	Kamaka® Style		35.51 mm	4.34 mm	7.35 mm	27.65 mm
			1.398 in	0.171 in	0.289 in	1.089 in
1250			35.61 mm	3.56 mm	5.64 mm	28.88 mm
			1.402 in	0.140 in	0.222 in	1.137 in
1257			35.66 mm	3.68 mm	7.67 mm	28.86 mm
			1.404 in	0.145 in	0.302 in	1.136 in

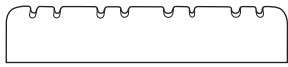









String spacing is measured center to center of outside slots



left-handed option available

# UKULELE NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	A TO G
1236	Martin® Style		36.47 mm	3.10 mm	6.00 mm	30.00 mm
			1.436 in	0.122 in	0.236 in	1.181 in
1837	Kamaka® Style		37.38 mm	4.46 mm	7.28 mm	30.41 mm
			1.472 in	0.176 in	0.287 in	1.197 in
1637	Kamaka® Style		37.45 mm	4.40 mm	7.43 mm	29.90 mm
			1.474 in	0.173 in	0.293 in	1.177 in
1237	Kamaka® Style		37.46 mm	4.42 mm	7.34 mm	30.24 mm
			1.475 in	0.174 in	0.289 in	1.191 in
1266			37.93 mm	3.23 mm	6.56 mm	26.80 mm
			1.493 in	0.127 in	0.258 in	1.055 in
1259			38.00 mm	3.64 mm	6.75 mm	28.82 mm
			1.496 in	0.143 in	0.266 in	1.135 in
1265	KoAloha® Style		38.04 mm	3.22 mm	6.55 mm	27.30 mm
			1.498 in	0.127 in	0.258 in	1.075 in
1258	Kamaka® Style		38.81 mm	4.41 mm	7.28 mm	31.67 mm
			1.528 in	0.174 in	0.287 in	1.247 in



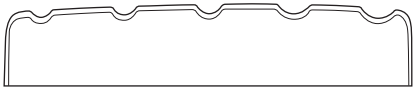


String spacing is measured center to center of outside slots






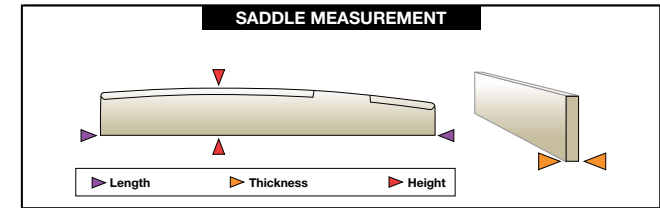
left-handed option available

## UKULELE NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	A TO G
1260	Kala® Style		44.84 mm	6.06 mm	11.99 mm	33.33 mm
			1.765 in	0.239 in	0.472 in	1.312 in
1245	Kala® Style		44.94 mm	6.16 mm	12.20 mm	34.90 mm
			1.769 in	0.243 in	0.480 in	1.374 in
1461	Kala® Style		53.89 mm	6.08 mm	11.08 mm	44.70 mm
			2.122 in	0.239 in	0.436 in	1.760 in




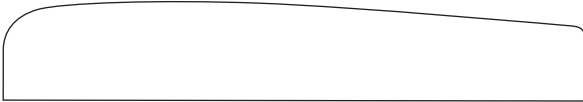



## MANDOLIN NUTS

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 1530			29.08 mm	4.72 mm	8.36 mm	24.51 mm
			1.145 in	0.186 in	0.329 in	0.965 in
1535			30.40 mm	4.11 mm	7.59 mm	24.77 mm
			1.197 in	0.197 in	0.299 in	0.975 in





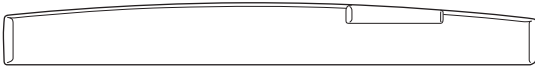

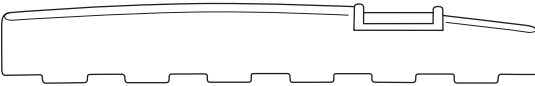


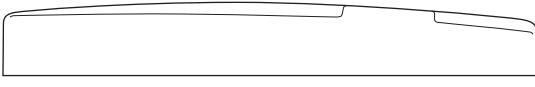


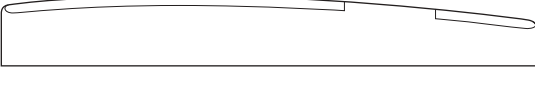

## (BLANK) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9072			71.87 mm	3.05 mm	8.49 mm	0.00 mm
			2.830 in	0.120 in	0.334 in	0.000 in
9100	Martin® Style		73.87 mm	2.56 mm	9.73 mm	0.00 mm
			2.908 in	0.101 in	0.383 in	0.000 in
9000			76.72 mm	3.16 mm	11.42 mm	0.00 mm
			3.020 in	0.124 in	0.450 in	0.000 in
9313			76.90 mm	3.08 mm	13.07 mm	0.00 mm
			3.028 in	0.121 in	0.515 in	0.000 in
9132			95.26 mm	2.70 mm	12.67 mm	0.00 mm
			3.750 in	0.106 in	0.499 in	0.000 in
9025			101.60 mm	6.35 mm	12.70 mm	0.00 mm
			4.000 in	0.250 in	0.500 in	0.000 in
9125			101.83 mm	3.27 mm	12.85 mm	0.00 mm
			4.009 in	0.129 in	0.506 in	0.000 in











# (BLANK) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
9332			101.77 mm	2.45 mm	12.73 mm	0.00 mm
			4.007 in	0.096 in	0.501 in	0.000 in
 9222	Washburn® Style		70.40 mm	3.12 mm	8.25 mm	0.00 mm
			2.772 in	0.123 in	0.325 in	0.000 in
 9690	Garrison® Style		70.65 mm	3.26 mm	10.40 mm	0.00 mm
			2.781 in	0.128 in	0.409 in	0.000 in
 9290	Garrison® Style		70.72 mm	3.29 mm	11.62 mm	0.00 mm
			2.784 in	0.130 in	0.457 in	0.000 in
9044	Morris Style®		70.75 mm	3.20 mm	9.75 mm	0.00 mm
			2.785 in	0.126 in	0.384 in	0.000 in
9266	B Brand Style®		70.78 mm	3.23 mm	8.54 mm	0.00 mm
			2.787 in	0.127 in	0.336 in	0.000 in
 9229			70.85 mm	3.26 mm	8.92 mm	0.00 mm
			2.789 in	0.128 in	0.351 in	0.000 in
9244	Morris Style®		70.87 mm	3.14 mm	9.81 mm	0.00 mm
			2.790 in	0.124 in	0.386 in	0.000 in










# (COMPENSATED) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9295	Garrison® Style		70.91 mm	3.24 mm	11.28 mm	0.00 mm
			2.792 in	0.128 in	0.444 in	0.000 in
9228			70.91 mm	3.11 mm	7.95 mm	0.00 mm
			2.792 in	0.122 in	0.313 in	0.000 in
9220	Larrivee® Style		71.06 mm	3.05 mm	11.49 mm	0.00 mm
			2.798 in	0.120 in	0.452 in	0.000 in
9205	Taylor® Style		71.12 mm	3.18 mm	7.67 mm	0.00 mm
			2.800 in	0.125 in	0.302 in	0.000 in
9206	Taylor® Style		71.12 mm	3.18 mm	9.10 mm	0.00 mm
			2.800 in	0.125 in	0.358 in	0.000 in
9201			71.12 mm	3.10 mm	9.98 mm	0.00 mm
			2.800 in	0.122 in	0.393 in	0.000 in
 9200	Taylor® Style		71.17 mm	3.12 mm	10.01 mm	0.00 mm
			2.802 in	0.123 in	0.394 in	0.000 in
 9216	Larrivee® Style		71.29 mm	3.20 mm	9.44 mm	0.00 mm
			2.806 in	0.126 in	0.327 in	0.000 in

# (COMPENSATED) ACOUSTIC SADDLES




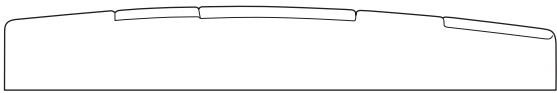
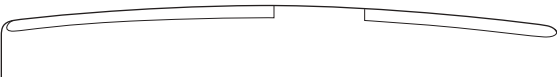


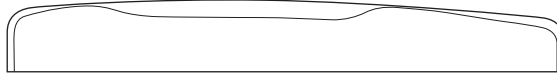


 left-handed option available

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
9600	Microbalance		71.27 mm	3.20 mm	8.41 mm	0.00 mm
			2.806 in	0.126 in	0.331 in	0.000 in
9650	Microbalance		71.27 mm	3.20 mm	8.41 mm	0.00 mm
			2.809 in	0.128 in	0.436 in	0.000 in
9400	Gibson® Style		71.34 mm	3.26 mm	11.08 mm	0.00 mm
			2.829 in	0.123 in	0.402 in	0.000 in
9273	Guild® Style		71.86 mm	3.12 mm	10.20 mm	0.00 mm
			2.830 in	0.119 in	0.339 in	0.000 in
 9272			71.89 mm	3.01 mm	8.61 mm	0.00 mm
			2.800 in	0.125 in	0.358 in	0.000 in
9672			72.00 mm	3.10 mm	9.00 mm	0.00 mm
			2.835 in	0.122 in	0.354 in	0.000 in
9230			72.49 mm	3.33 mm	10.32 mm	0.00 mm
			2.854 in	0.131 in	0.406 in	0.000 in
9212	Breedlove® Style		72.86 mm	3.45 mm	11.67 mm	0.00 mm
			2.869 in	0.136 in	0.459 in	0.000 in











# (COMPENSATED) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
 9281	Godin® Style		73.00 mm	3.25 mm	11.25 mm	0.00 mm
			2.874 in	0.128 in	0.443 in	0.000 in
 9280			73.15 mm	3.25 mm	10.92 mm	0.00 mm
			2.880 in	0.128 in	0.430 in	0.000 in
9305			73.60 mm	0.00 mm	9.60 mm	0.00 mm
			2.898 in	0.000 in	0.378 in	0.000 in
9420			73.65 mm	3.00 mm	9.00 mm	0.00 mm
			2.900 in	0.118 in	0.354 in	0.000 in
9110	Martin® Style		73.66 mm	2.73 mm	10.16 mm	0.00 mm
			2.900 in	0.107 in	0.400 in	0.000 in
9362			73.69 mm	3.13 mm	9.24 mm	0.00 mm
			2.901 in	0.123 in	0.364 in	0.000 in
9164	Martin® Style		73.76 mm	2.65 mm	9.98 mm	0.00 mm
			2.904 in	0.104 in	0.393 in	0.000 in
9165	Martin® Style		73.77 mm	2.66 mm	10.49 mm	0.00 mm
			2.904 in	0.105 in	0.413 in	0.000 in






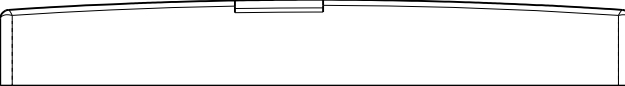

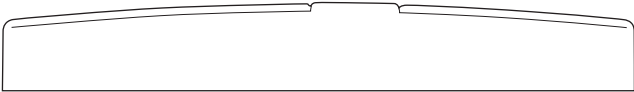

# (COMPENSATED) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9162	Martin® Style		73.81 mm	2.66 mm	8.95 mm	0.00 mm
			2.906 in	0.105 in	0.352 in	0.000 in
9161	Martin® Style		73.83 mm	2.65 mm	8.46 mm	0.00 mm
			2.907 in	0.104 in	0.333 in	0.000 in
9124	Martin® Style		73.84 mm	2.74 mm	10.20 mm	0.00 mm
			2.907 in	0.108 in	0.402 in	0.000 in
9127	Martin® Style		73.84 mm	2.62 mm	11.00 mm	0.00 mm
			2.907 in	0.103 in	0.433 in	0.000 in
9121			73.85 mm	2.66 mm	9.00 mm	0.00 mm
			2.907 in	0.105 in	0.354 in	0.000 in
9163			73.86 mm	2.65 mm	9.45 mm	0.00 mm
			2.908 in	0.104 in	0.372 in	0.000 in
9122			73.88 mm	2.68 mm	9.46 mm	0.00 mm
			2.909 in	0.106 in	0.372 in	0.000 in
9274	Guzhi® Style		74.10 mm	3.00 mm	9.20 mm	0.00 mm
			2.917 in	0.118 in	0.362 in	0.000 in

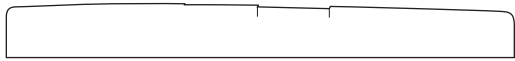





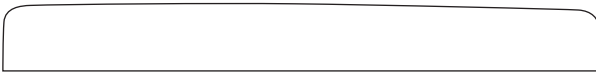



# (COMPENSATED) ACOUSTIC SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9292			74.92 mm	3.18 mm	8.98 mm	0.00 mm
			2.950 in	0.125 in	0.354 in	0.000 in
9176			75.87 mm	3.02 mm	12.92 mm	0.00 mm
			2.987 in	0.119 in	0.509 in	0.000 in
9276	Alvarez® Style		76.72 mm	3.14 mm	9.32 mm	0.00 mm
			3.020 in	0.124 in	0.367 in	0.000 in
9310			76.97 mm	3.08 mm	10.05 mm	0.00 mm
			3.030 in	0.121 in	0.396 in	0.000 in
9016	Gibson® Style		79.40 mm	7.14 mm	9.65 mm	0.00 mm
			3.126 in	0.281 in	0.380 in	0.000 in
9249			83.39 mm	3.22 mm	11.33 mm	0.00 mm
			3.283 in	0.127 in	0.446 in	0.000 in
 9283	Godin® Style		83.50 mm	3.20 mm	11.50 mm	0.00 mm
			3.287 in	0.126 in	0.453 in	0.000 in
9219	Godin® Style		83.79 mm	3.28 mm	11.29 mm	0.00 mm
			3.299 in	0.129 in	0.444 in	0.000 in

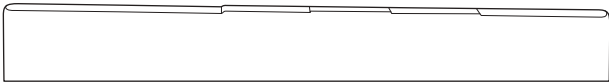


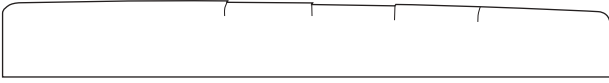
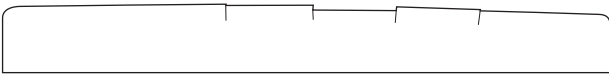


# CLASSICAL GUITAR SADDLES

 left-handed  
option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9334			67.65 mm	3.12 mm	6.84 mm	0.00 mm
			2.663 in	0.123 in	0.269 in	0.000 in
 9068			68.10 mm	3.10 mm	9.50 mm	0.00 mm
			2.681 in	0.122 in	0.374 in	0.000 in
 9300	Taylor® Style		70.97 mm	3.26 mm	9.66 mm	0.00 mm
			2.794 in	0.128 in	0.380 in	0.000 in
9207	Ramirez® Style		76.30 mm	2.50 mm	8.50 mm	0.00 mm
			3.004 in	0.098 in	0.335 in	0.000 in
9079			79.00 mm	3.08 mm	8.90 mm	0.00 mm
			3.110 in	0.121 in	0.350 in	0.000 in
9211			79.89 mm	2.82 mm	10.45 mm	0.00 mm
			3.145 in	0.111 in	0.411 in	0.000 in
9080	Raimundo® Style		80.00 mm	3.30 mm	9.00 mm	0.00 mm
			3.150 in	0.130 in	0.354 in	0.000 in
9208			80.01 mm	2.57 mm	8.20 mm	0.00 mm
			3.150 in	0.101 in	0.323 in	0.000 in

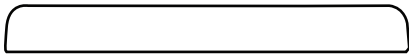

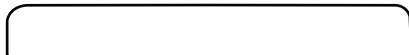





# CLASSICAL GUITAR SADDLES

 left-handed option available

CODE	STYLE	PRODUCT	LENGTH	THICKNESS	HEIGHT	E TO E
9210			80.01 mm	2.57 mm	10.01 mm	0.00 mm
			3.150 in	0.101 in	0.394 in	0.000 in
 9204	Raimundo® Style		80.11 mm	3.26 mm	9.19 mm	0.00 mm
			3.154 in	0.128 in	0.362 in	0.000 in
9298			80.48 mm	3.21 mm	9.69 mm	0.00 mm
			3.169 in	0.126 in	0.381 in	0.000 in
9288			80.52 mm	3.11 mm	8.66 mm	0.00 mm
			3.170 in	0.122 in	0.341 in	0.000 in
9233			83.71 mm	3.13 mm	10.07 mm	0.00 mm
			3.296 in	0.123 in	0.396 in	0.000 in
9209	Godin® Style		83.79 mm	3.28 mm	11.29 mm	0.00 mm
			3.299 in	0.129 in	0.444 in	0.000 in

# UKULELE SADDLES



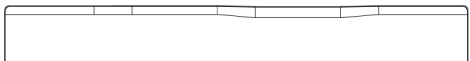

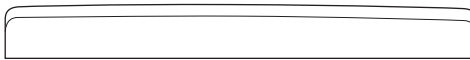



 left-handed  
option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9356			52.91 mm	2.84 mm	5.85 mm	0.00 mm
			2.083 in	0.111 in	0.130 in	0.000 in
9353			52.99 mm	2.89 mm	6.50 mm	0.00 mm
			2.086 in	0.114 in	0.256 in	0.000 in
9357			53.07 mm	2.83 mm	6.98 mm	0.00 mm
			2.089 in	0.112 in	0.275 in	0.000 in
9358			53.08 mm	2.90 mm	8.00 mm	0.00 mm
			2.090 in	0.114 in	0.315 in	0.000 in
9254	Martin® Style		53.56 mm	2.62 mm	9.10 mm	0.00 mm
			2.109 in	0.103 in	0.358 in	0.000 in
9253	Martin® Style		53.56 mm	2.62 mm	9.10 mm	0.00 mm
			3.750 in	0.106 in	0.499 in	0.000 in
2265	KoAloha® Style		53.89 mm	3.29 mm	6.57 mm	0.00 mm
			2.122 in	0.130 in	0.259 in	0.000 in
9258	Kanileau® Style		57.92 mm	3.22 mm	7.80 mm	0.00 mm
			2.280 in	0.127 in	0.307 in	0.000 in

# UKULELE SADDLES



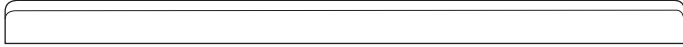
left-handed  
option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9263	Kamaka® Style		60.23 mm	2.45 mm	7.53 mm	0.00 mm
			2.371 in	0.096 in	0.296 in	0.000 in
9260			61.21 mm	3.32 mm	6.51 mm	0.00 mm
			2.410 in	0.131 in	0.256 in	0.000 in
9275			61.21 mm	3.32 mm	7.54 mm	0.00 mm
			2.410 in	0.131 in	0.297 in	0.000 in
9252			62.00 mm	3.25 mm	7.28 mm	0.00 mm
			2.441 in	0.128 in	0.287 in	0.000 in
9250			62.26 mm	3.33 mm	7.09 mm	0.00 mm
			2.451 in	0.131 in	0.279 in	0.000 in
9261	Kamaka® Style		63.33 mm	2.45 mm	7.53 mm	0.00 mm
			2.493 in	0.096 in	0.296 in	0.000 in
9265	KoAloha® Style		69.54 mm	2.25 mm	8.16 mm	0.00 mm
			2.738 in	0.089 in	0.321 in	0.000 in
9267	Kamaka® Style		76.01 mm	2.43 mm	7.56 mm	0.00 mm
			2.993 in	0.096 in	0.298 in	0.000 in

# UKULELE SADDLES

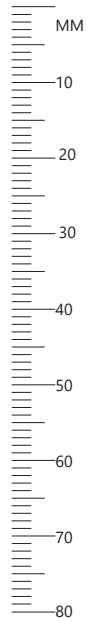


left-handed  
option available

CODE	STYLE	PRODUCT	LENGHT	THICKNESS	HEIGHT	E TO E
9255			89.96 mm	3.16 mm	5.71 mm	0.00 mm
			3.542 in	0.124 in	0.225 in	0.000 in



# MILLIMETERS



# GRAPH TECH QUICK SIZING GUIDE

Use this guide to determine the size of your current parts to assist you in finding a correct replacement. For a complete listing of over 300 nuts, saddles and bridge pins, please visit our website at [www.graphtech.com](http://www.graphtech.com). Products illustrated are actual size.

# INCHES



**IMPORTANT NOTE!**  
To ensure accurate printing, please print in Adobe Acrobat Reader, set your printer settings to 100%, and make sure no special printing options are selected.

**UNDERSTANDING GRAPH TECH PART NUMBERS**

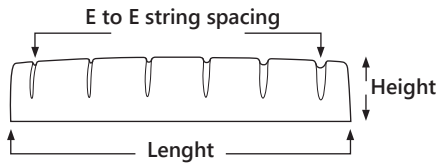
Packaged (P) or Bulk (B)

Part Number

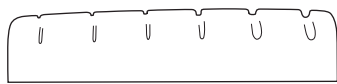
Brand: Q=TUSQ®; S=String Saver™; T= Black TUSQ® XL; G=String Saver™ Classic Steel  
N=GHOST e.g. PS-8000-00 = Packaged String Saver Saddles for Import Strat

## ACOUSTIC, ELECTRIC & BASS NUTS

To size a nut, measure length, width, height, and the E to E string spacing.



6134-00 Taylor Nut



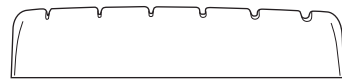
6010-00 LP Nut



5000-00 Strat Nut



1204-00 Precision Bass Nut



6060-00 Epiphone Nut

## ACOUSTIC, ELECTRIC & BASS NUTS

To size a saddle, measure length, width, and height.



9000-00 Acoustic Blank 1/8" Saddle



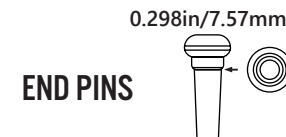
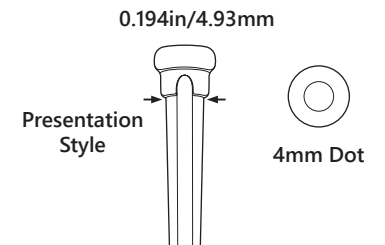
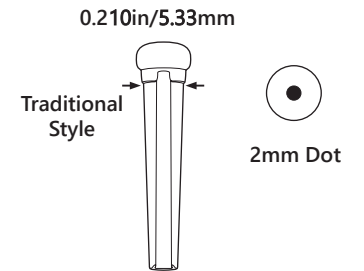
9110-00 Acoustic Compensated Martin Saddle



9280-C0 Acoustic Compensated Saddle

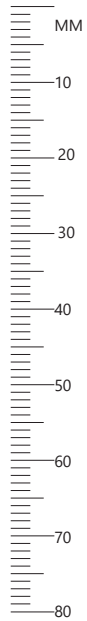
## BRIDGE PINS

To size bridge pins / end pins, measure the diameter at the top of the shank, just below the collar.

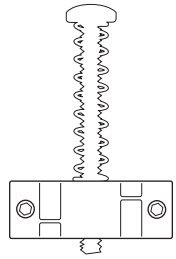


END PINS

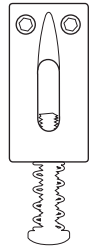
MILLIMETERS



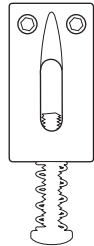
ELECTRIC SADDLES



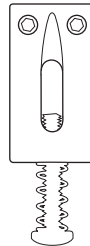
8163-00  
Tele 3-piece



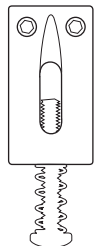
8220-00  
P.R.S.



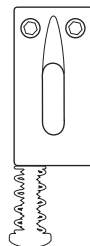
8000-00  
Import Strat



8000-F0  
Vintage Strat



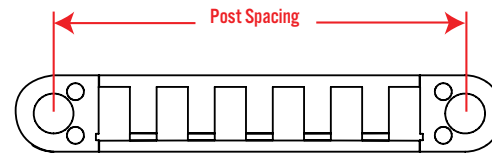
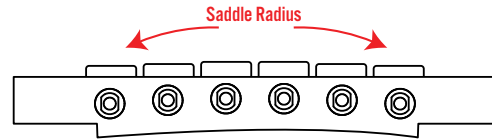
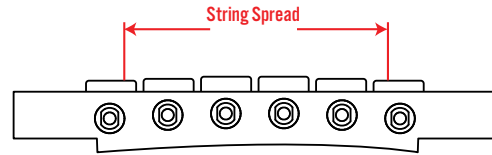
8100-00  
Vintage Tele



8001-00  
Offset Strat

BRIDGES \*\*\*not to scale\*\*\*

Tune-o-matic Measuring Guide



	STRING SPREAD	SADDLE RADIUS	POST SPACING	POST THREADS
Bridge	2 - 1/16"	12"	2.920"	M8 X 1.25
	52.4 mm	305 mm	74 mm	M8 X 1.25
Tailpiece	2 - 1/16"	n/a	3.210"	M8 X 1.25
	52.4 mm	n/a	82 mm	M8 X 1.25

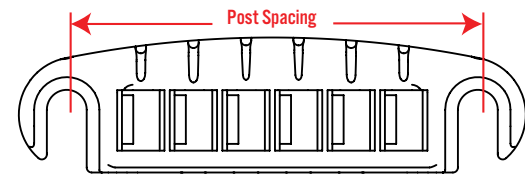
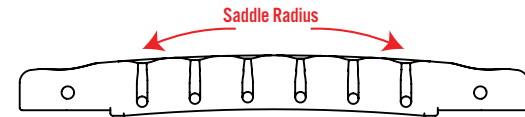
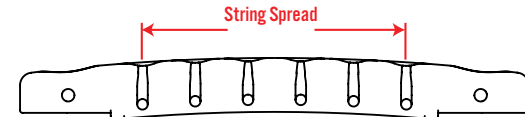
BUSHING OUTER DIAMETERS measured underneath flange

	TYPE	MILLIMETERS	INCHES
	4mm TOM (inch threads)	6.41	0.252
	6mm TOM (metric threads)	10.89	0.428
	Tailpiece (metric threads)	10.85	0.466
	Tailpiece (inch threads)	11.94	0.470

INCHES



Wraparound Measuring Guide

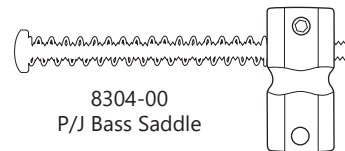


	STRING SPREAD	SADDLE RADIUS	POST SPACING	POST THREADS
Bridge	2 - 1/16"	12"	3.224"	5/16" -24UNF
	52.4 mm	305 mm	82 mm	5/16" -24UNF

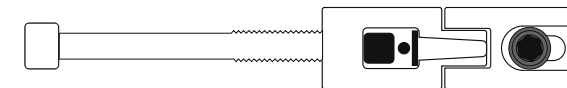
BUSHING OUTER DIAMETERS measured underneath flange

	TYPE	MILLIMETERS	INCHES
	Wraparound (inch threads)	12.19	0.480
	Wraparound (metric threads)	12.19	0.480

BASS SADDLES

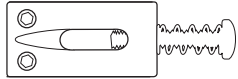


8304-00  
P/J Bass Saddle



PG-0080  
Floyd Rose Saddles

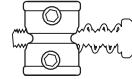
# STRING SAVER SADDLES SCREW AND SPRING GUIDE



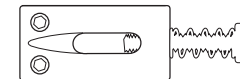
**PS-8000-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



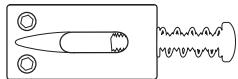
**PS-8002-R0**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8108-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



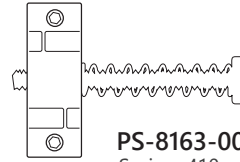
**PS-8220-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



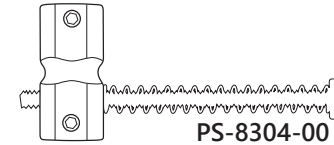
**PS-8000-0E**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



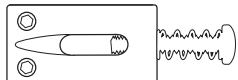
**PS-8100-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



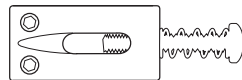
**PS-8163-00**  
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Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



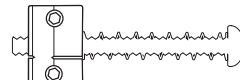
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Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



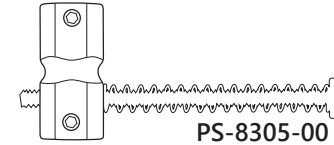
**PS-8000-F0**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8100-N0**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8166-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



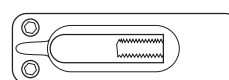
**PS-8305-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



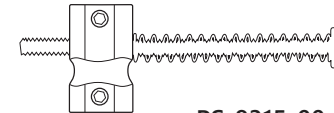
**PS-8001-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



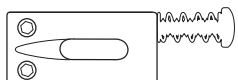
**PS-8101-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



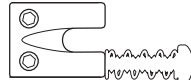
**PS-8200-01**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



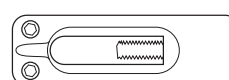
**PS-8315-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



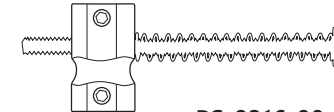
**PS-8001-L0**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8102-L0**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8200-02**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



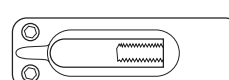
**PS-8316-00**  
Spring .410 x .170  
Cap Screw 4-40 x 5/8  
Set Screw 4-40 x 5/16



**PS-8002-L0**



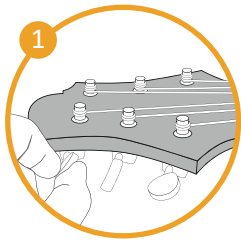
**PS-8102-R0**



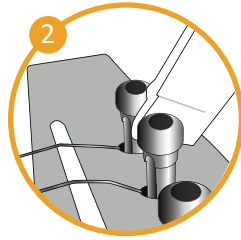
**PS-8200-03**

# INSTALLATION TIPS & GUIDELINES

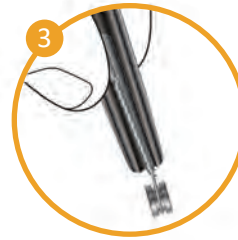
## BRIDGE PINS



**STEP 1**  
Loosen all six strings. Reduce the tension until they are loose enough that the notes can be no longer heard when the string is plucked.



**STEP 2**  
Remove your old bridge pins using your fingers or a pin puller like the one on the end of most string winders.

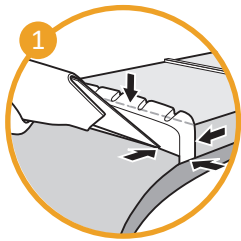


**STEP 3**  
Align the string with the groove in the bridge pin and let the ball end extend beyond the end of the pin. Insert the ball end and the bridge pin half way into the tapered hole in the bridge.

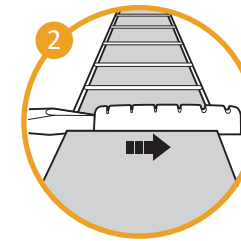


**STEP 4**  
Pull up on the string to slide the ball end up the bridge pin and anchor it against the bridge plate, then push the pin down into the tapered hole. The pin does not have to be tight to hold the string firmly. Push gently to seat the pin.

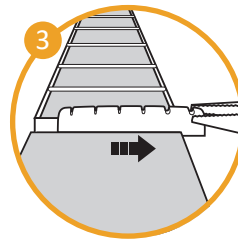
## NUTS



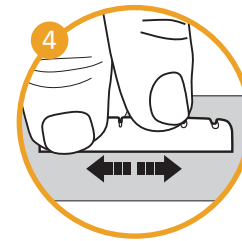
**STEP 1**  
Remove the strings. Score around every edge of the nut with an exacto knife to prevent lacquer sticking to the nut or the neck and chipping away.



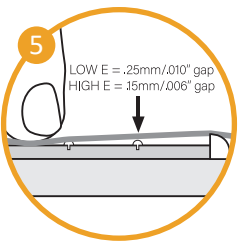
**STEP 2**  
If the nut is not sitting in a slot, usually a light tap with a small block will set it free. If it is sitting in a slot, gently tap it out sideways using a hammer and a screwdriver.



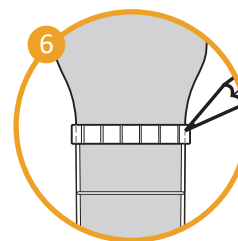
**STEP 3**  
When it is sticking out of the side, pull it out in the same direction with a pair of pliers, like you would a tooth. Scrape or file the nut slot free from old glue and finish residue while making sure that the slot remains square.



**STEP 4**  
See if the Graph Tech nut fits into the slot, without forcing it. If it is too thick, place a 240 to 600 grit sand paper face up on a flat surface and sand down the sides of the nut until it fits in the slot snugly but is easily removeable.



**STEP 5**  
Place the nut in the nut slot and restring the guitar; tune to pitch. To check for correct height, press down on the string just past the 2nd fret and measure the gap between the string and the 1st fret. This gap should be 0.010" (0.25mm) for the low E string and 0.006" (0.15mm) for the high E string. Loosen the strings and remove the nut; sand the bottom of the nut to reduce the height.



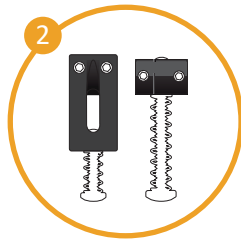
**STEP 6**  
Once you've adjusted the thickness and the height, you just need to sand the ends of the nut so that they are flush with the neck. Just use a pencil and mark the ends of the nut that are sticking out, remove it from the neck and sand it to your marks.

# INSTALLATION TIPS & GUIDELINES

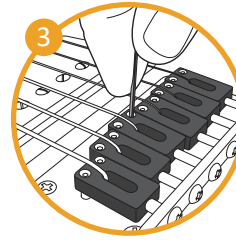
## ELECTRIC SADDLES (STRAT&TELE STYLE)



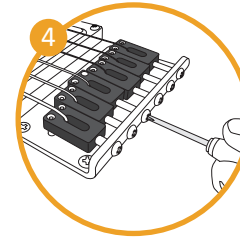
**STEP 1**  
Determine correct string height by measuring the gap between the top of the 12th fret and the bottom of the low E string. It should be around 0.125" (3mm), or about a stack of 12 business cards if you don't have a ruler. For the high E string, the gap should be around 0.080" (2mm), or about a stack of 8 business cards.



**STEP 2**  
Remove the old saddles and replace them with your new Graph Tech saddles. Set the intonation "starting point" by turning the intonation screw in so that you can just see it coming out of the other side of the saddle. Tune your guitar to concert pitch.

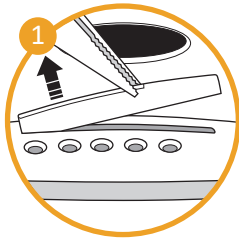


**STEP 3**  
Adjust the string height using the supplied allen key to lower or raise your saddles until correct string height is achieved. Be sure to adjust both height adjustment screws equally to keep the saddle level. Tune guitar to concert pitch after each adjustment. Repeat for each string.

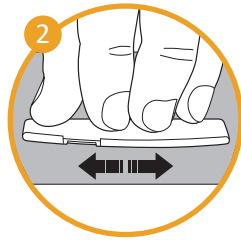


**STEP 4**  
Set the intonation. In order for chords to play in tune all over the fretboard, each string must be correctly intonated. The note fretted at the 12th fret should match the 12th-fret harmonic. Compare the pitch of the fretted note and the harmonic (lightly touch the string right above the 12th fret and pluck). Adjust each saddle by tuning its intonation screw with a screwdriver. Shortening the string will increase the pitch of the harmonic relative to the fretted note; making the string longer will decrease the pitch. Each time you make a saddle adjustment, retune the string before comparing pitches again.

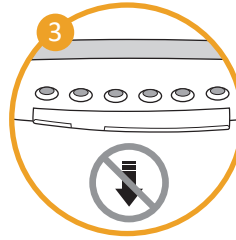
## ACOUSTIC SADDLES



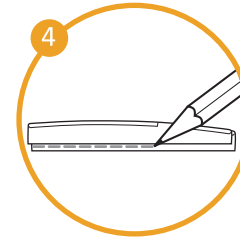
**STEP 1**  
Remove the strings and bridge pins. The saddle should lift out easily. If you find it is glued in, get a competent guitar tech to complete the replacement. DO NOT pry it out as you may take some wood from your bridge with it. Once removed, clean the slot of any debris.



**STEP 2**  
Check if the Graph Tech saddle fits into the slot, without forcing it. If it's too thick, place a 240 to 600 grit sand paper on a flat surface and sand the sides of the saddle until it fits in the slot snugly but is easily removable. You may have to reduce the length also.



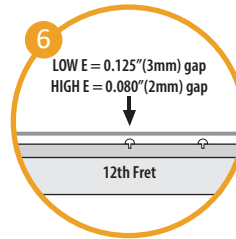
**STEP 3**  
The saddle should slip in easily, but still be snug enough that you can turn the guitar upside down without the saddle falling out.



**STEP 4**  
Adjust the string height. Put your old saddle against the GraphTech saddle and align the tops. Using a pencil mark a line along the bottom of your new saddle.

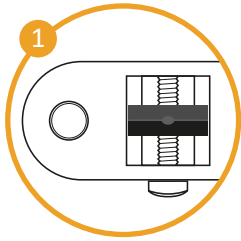


**STEP 5**  
Sand the bottom of the saddle up to the line, keeping the bottom flat and square to the sides. Work in small increments and check your work frequently so you don't remove too much material.



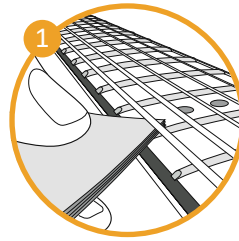
**STEP 6**  
Determine correct string height by measuring the gap between the top of the 12th fret and the bottom of the low E string. It should be around 0.125" (3mm), or about a stack of 12 business cards if you don't have a ruler. For the high E string, the gap should be around 0.080" (2mm), or about a stack of 8 business cards.

# INSTALLATION TIPS & GUIDELINES



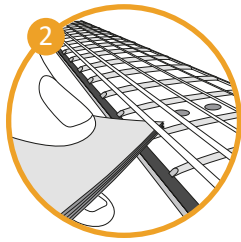
## STEP 1

Once you have removed the old saddles and replaced them with your new Graph Tech saddles, set the intonation "starting point": screw the intonation screw so that the saddles are close to the centre of the bridge. Tune your guitar to concert pitch.



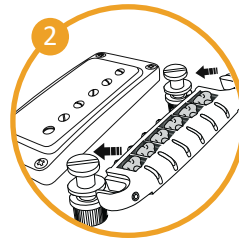
## STEP 1

Determine correct string height by measuring the gap between the top of the 12th fret and the bottom of the low E string. It should be around 0.125" (3mm), or about a stack of a 12 business cards if you don't have a ruler. For the high E string, the gap should be around 0.080" (2mm) or about a stack of 8 business cards.



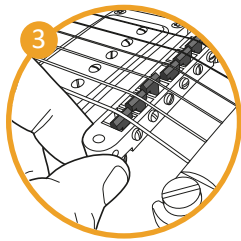
## STEP 2

To determine correct string height, measure the gap between the top of the twelfth fret and the bottom of the low E string. It should be around 3mm/.118", or about a stack of 12 business cards if you don't have a ruler. For the high E string, the gap should be around 2mm/.079", or about a stack of 8 business cards.



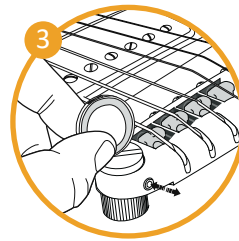
## STEP 2

Remove the strings and remove the old bridge by sliding it off the posts. The ResoMax bridge comes with steel posts that enable the magnetic AutoLock feature. You may keep using your old posts if they are also steel.



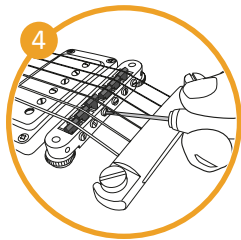
## STEP 3

To adjust your string height, adjust the two thumb wheel screws up or down until correct string height is achieved. Tune guitar to concert pitch after each adjustment.



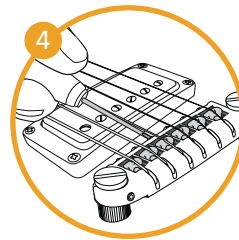
## STEP 3

Adjust the two set screws at the back of the bridge so that the range of travel of the saddles is beyond the scale length measured from the nut (scale length is 2x the distance from the nut to the 12th fret). Install strings and tune your guitar to concert pitch. Adjust the string height by turning the bridge posts with a coin. Raise or lower the treble and bass sides of the bridge until correct string height (measured in Step 1) is achieved. Tune the guitar to concert pitch after the adjustment and check the string height at the 12th fret.



## STEP 4

The fretted 12th position of a string should match its 12th fret harmonic (lightly touch the string right above the 12th fret and pluck). Adjust the intonation screw with a screwdriver. Shortening the distance between the saddle and nut will increase the pitch of the harmonic; increasing the distance lowers the pitch. Retune to concert pitch after each adjustment. Repeat for each string.



## STEP 4

Set the intonation. In order for the chords to play in tune all over the fretboard, each string must be correctly intonated. The note fretted at the 12th fret should match the 12th fret harmonic. Compare the pitch of the fretted note and the harmonic (lightly touch the string right above the 12th fret and pluck). Adjust each saddle by tuning its intonation screw with a screwdriver. Shortening the string will increase the pitch of the fretted note relative to the harmonic; making the string longer will decrease the pitch. Each time you make a saddle adjustment, retune the string before comparing pitches again.

# NOTES

A series of horizontal dotted lines for writing notes.



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