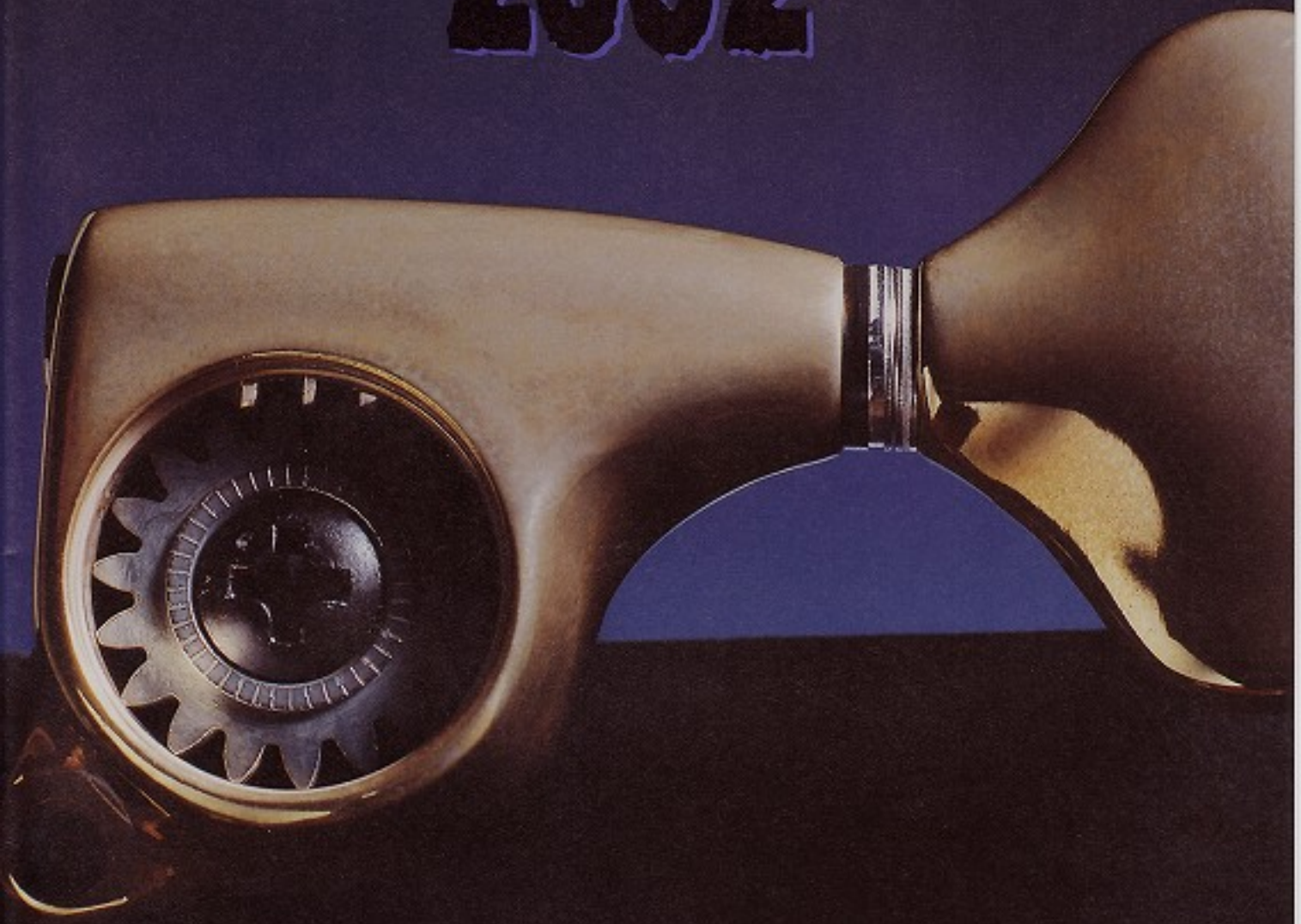
GUITAR & BASS PARTS COLLECTION 2002



GOTOH®

G GOTOH®

REVOLUTION 2002

Introducing the most significant advance in Machine head design ever.

For over 40 years "Gotoh" have been producing top quality tuning machine heads, but, like their competitors they knew they were not perfect. Two problems have always defeated all manufacturers, Gear lubrication and String post movement. Now for the first time "Gotoh" has solved both problems creating the worlds finest tuning machine heads.

"LUBRI-COAT"™

With a "Solid Lubrication Coat", oil has been eliminated keeping the lubrication where it is needed for the life of the tuning machine heads.

Tuning machine head mechanisms consist of two gears, a Worm gear and a Wheel gear. These two gears are constantly in contact and until now have been lubricated with oil or more usually grease. During normal use guitars could be subjected to temperatures below freezing to 40 degrees C above freezing. As you can imagine this variation in temperature can result in the lubrication changing from a thick Jelly like substance making the gears unnecessarily stiff, to a liquid, which can leak out leaving no lubrication between the gears at all.

By incorporating close tolerance machining with a Solid lubricating coat (pat' pend.) permanently bonded to the worm gear, the need for grease or oil has been eliminated keeping the lubrication where it is needed for the life of the tuning machine head.

※Solid lubricating coat (PAT.P)

"LUBRI-PLATE"™

Taking the concept of solid lubrication to an even higher-level Gotoh have developed a new process of application for their exclusive "510" and "X" series worm gears.

By creating a "Complex lubricating plating layer"[※1] (pat' pend) Gotoh have coated all moving and contacting surfaces through an Electro Plating process that is both revolutionary and totally new. Teflon is one of the slickest materials ever developed, but, as with any lubricant in a liquid or Thixotropic (semi solid) state it is subject to the same problems as old style grease and oil.

By electro plating "Teflon"[※2] on to the surface of the worm gears the lubrication is virtually indestructible and attached for life no matter what conditions your instrument is subjected to including water, sweat or beer !

※1 Complex lubricating plating layer "LUBRI-PLATE"™ (PAT.P) ※2 "Teflon" is a reg trademark of Dupont corp.

"X" FINISH™

After developing the Complex coat plating process "LUBRI-PLATE"™ for the lubrication of worm gears, further experimenting revealed other assets of this unique application.

By using this process both as a finish and protective coating, not only does it look great, looking even better with use, it has an incredibly smooth feel, and being waterproof and chip resistant, offers better protection than conventional cosmetic plating processes. Color may change in long period of use but it does not affect its performance.

Complex lubricating plating layer "LUBRI-PLATE"™ (PAT.P)

"ROCK-SOLID"™ STRING POST

Next time you change your strings, before you put on your new set, take a look at your tuning machine head posts. See how they move from rock side to side! This has been a problem with tuning machine heads since they were invented. Now "Gotoh" introduce "Rock-Solid"™ String posts.

Through a revolutionary new method of construction all this movement has been completely eliminated. This "Rocking" motion is one of the biggest problems for causing tuning instability, especially when using a Vibrato. Imagine, if you will, that when you dive bomb your Vibrato and the strings go slack, the tuning machine head post will change position, sometimes causing the string to sound sharp and then when you bend the string it changes position again causing the string to go flat. This will not happen with "Rock-Solid"™ String posts.

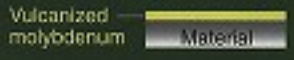
Remember the only thing that should "Rock" on stage is you, not your tuning machine heads!

※ "Rock-Solid"™ String posts (PAT.P)

Usual worm and wheel gears

"LUBRI-COAT"™

〈Solid lubricating coat (PAT.P)〉

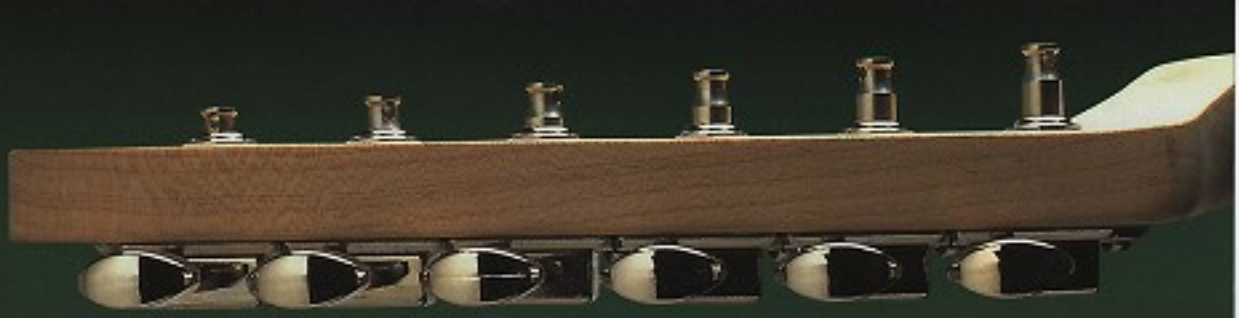


"LUBRI-PLATE"™

〈Complex lubricating plating layer "LUBRI-PLATE"™ (PAT.P)〉

X-Series gears finished in "X" FINISH™

Usual string post "ROCK-SOLID"™



There are 5 kinds of post variation, Standard, Magnum Lock®, H.A.P.®, H.A.P.®-A. and H.A.P.®-M. from which you can choose when you use Gotoh tuning machine heads. All those posts are now standard specification (except for a few models).
"Rock-Solid"™ String posts are available on SG models (except SGM) and SD700/SD701 and 510/2000/6500/1800/1600/480 series classical tuning keys.
"Gotoh" tuning machine heads are already utilised by the worlds premier guitar factories and custom builders throughout the world. These new innovations will establish "Gotoh" as the leading tuning machine head manufacturer and make "Gotoh" tuners the first choice for your guitar.

※"Rock-Solid"™ String posts (PAT.P)

Standard string post

MG "MAGNUM LOCK" PAT.

Gotoh Magum Lock is the ultimate string locking system with simple and steady mechanism.

Eliminating the "string wraps" around tuning machine head posts is a great asset when keeping vibrato-equipped guitars in tune without the use of troublesome clamps and fine tuners.
By locking the string on the post, only half a turn is required to bring most strings up to pitch, allowing the string to return to its' original position after bending or slackening off during dive bombing. The device is self-locking (string is clamped in place by the simple act of tuning to pitch). Tuning stability is taken to a new level with the introduction of the "Rock-Solid"™ String posts on selected Tuning machine heads with Magnum-lock feature.

Magnum-Lock string post

H.A.P.® "Height Adjustable Post PAT.

Gotoh H.A.P. is the world first system that enables you to adjust string post height as you like.

Creating the perfect down pressure over a guitars nut is a complex balance between Headstock angle and Tuning machine head post height selection.
Height adjustable posts take away the guesswork by allowing you to dial in the exact angle you need for, friction, string pressure/tension and open string sound and sustain. Ideal for flat style peg heads when string trees need to be eliminated.

H.A.P. String post

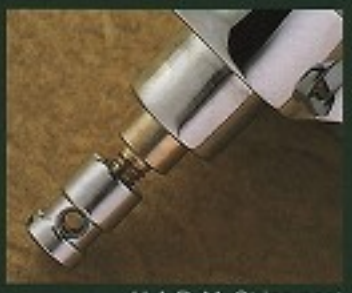
H.A.P.®-A PAT.

Guitars with angle back peg-heads can sometimes benefit from slightly less pressure at the nut. HAP-A tuning machine heads are designed to adjust the string anchor point away from the face of the headstock allowing you to select the perfect angle and feel.

H.A.P.-A. String post

H.A.P.®-M PAT.

Combining the ability of post height adjustment with the Magnum lock feature gives a machine head that is the perfect choice for flat peg-head style guitars equipped with a Vibrato. Removing the string tree on this type of guitar is essential for tuning stability, couple this with the advantage of a locking string post (eliminating string wraps) and you have the ultimate set up.



H.A.P.-M. String post

Always follow the instructions in the instruction manual/leaflet.

Guitar Machine Heads for Electric and Acoustic

Normal cosmetic plating such as Chrome / Nickel and especially Gold can be subject to corrosion due to sweat/acid , grease and general usage.
"Gotoh" new "X" finish™ is designed to reduce this to a minimum keeping your instrument looking like new and performing better for longer.

For more details on new "X" finish™ see explanation on page 1.

SGS510X

SGS510X
SGS510X MG
SGS510X HAP/HAPA/HAPM

Finishes	XN.XC.XG
Mission	1:15
e.g.	SGS510X-P7-L SGS510X-S5-R HAPM SGS510X-L5 MG

For mounting screw hole location and button option, see page 4.

SGL510X

SGL510X
SGL510X MG
SGL510X HAP/HAPA/HAPM

Finishes	XN.XC.XG
Mission	1:18
e.g.	SGL510X-L5-HAP SGL510X-P5B SGL510X-RL8 HAPA

For mounting screw hole location and button option, see page 4.

SGZ510X

SGZ510X
SGZ510X MG
SGZ510X HAP/HAPA/HAPM

Finishes	XN.XC.XG
Mission	1:21
e.g.	SGZ510X-P1 MG SGZ510X-L5 HAPM SGZ510X-EN01 HAP

For mounting screw hole location and button option, see page 4.

SD700X

SD700X
SD700X MG

Finishes	XN.XC.XG
Mission	1:15
e.g.	SD700X-05M SD700X-06M MG SD700X-05MP2

For mounting screw hole location and button option, see page 6.

SD701X

SD701X
SD701X MG

Finishes	XN.XC.XG
Mission	1:15
e.g.	SD701X-06M-L SD701X-05M-L SD701X-05MA-L MG

For mounting screw hole location and button option, see page 6.

Finishes : XN-Excellent Nickel, XC-Excellent Chrome, XG-Excellent Gold

Up to now tuning machine heads have been lubricated with oil or grease. This can leak out in time causing problems with the guitars finish and causing poor performance of the worm gears. Other problems experienced are Back lash (loose feeling and poor contact between worm gears) as well as String post movement resulting in Poor tuning stability, especially with Vibrato equipped guitars.

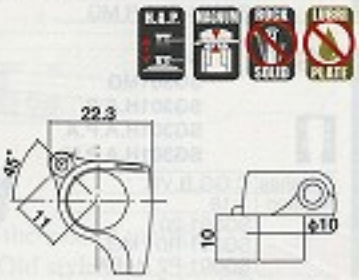
"Gotoh" 510 Tuning machine head have been upgraded to address all the above problems with new "Lubri-Plate"™ and "Rock-Solid"™ String posts.

For detailed explanation of these features please see page 1

SGS510

SGS510
SGS510MG
SGS510H.A.P
SGS510H.A.P.A
SGS510H.A.P.M

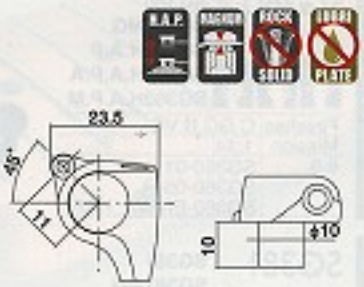
Finishes	C.GG.B.VC
Mission	1:15
e.g.	SGS510-S5-L SGS510-EN07-R HAP SGS510-L5 HAPA



SGL510

SGL510
SGL510MG
SGL510H.A.P
SGL510H.A.P.A
SGL510H.A.P.M

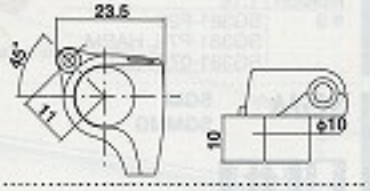
Finishes	C.GG.B.VC
Mission	1:18
e.g.	SGL510-L5-HAPA SGL510-EN01 MG SGL510-RL8



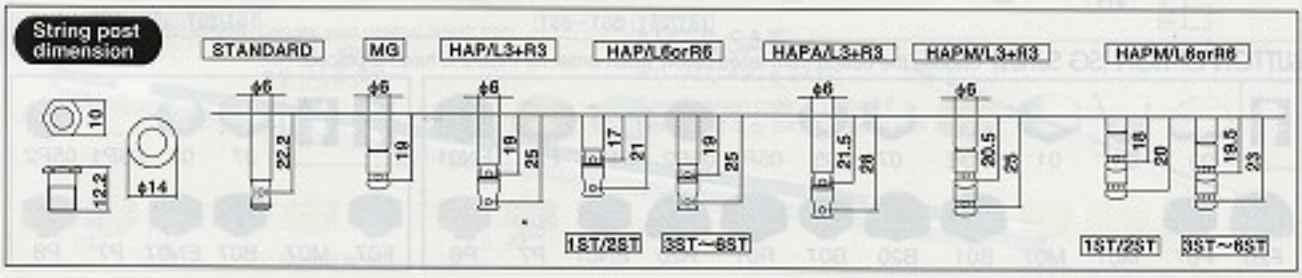
SGZ510

SGZ510
SGZ510MG
SGZ510H.A.P
SGZ510H.A.P.A
SGZ510H.A.P.M

Finishes	C.GG.B.VC
Mission	1:21
e.g.	SGZ510-BL8 HAPM SGZ510-L5 SGZ510-P2 HAP



BUTTON OPTION (SG-510 Series) Choose the button from listed below when order for machine head is placed.



Finishes : C-Chrome, GG-Gold, B-Black Chrome, VC-Violet Chrome

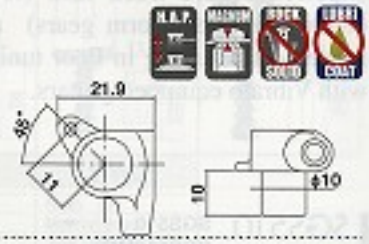
Featuring "Lubri-Coat"™ and "Rock-Solid"™ String posts, performance has been greatly enhanced. Gears feel smoother, back lash is minimized and Vibrato equipped guitars have excellent tuning stability.

For information on 'Lubri-Coat'™ and 'Rock-Solid'™, see page 1.

SG503

SG503
SG503MG
SG503H.A.P
SG503H.A.P.A
SG503H.A.P.M

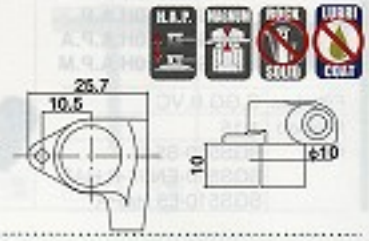
Finishes	C.GG.B.VC
Mission	1:15
e.g.	SG503-P3E SG503-05P1-L HAPM SG503-B07-R MG



SG301

SG301
SG301MG
SG301H.A.P
SG301H.A.P.A
SG301H.A.P.M

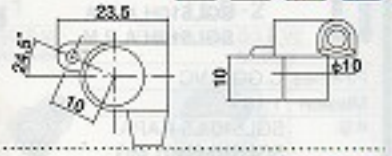
Finishes	C.GG.B.VC
Mission	1:18
e.g.	SG301-20 SG301-R01 MG SG301-P2 HAPA



SG360

SG360
SG360MG
SG360H.A.P
SG360H.A.P.A
SG360H.A.P.M

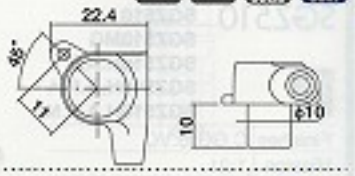
Finishes	C.GG.B.VC
Mission	1:14
e.g.	SG360-01 SG360-05-R SG360-EN07-L HAP



SG381

SG381
SG381MG
SG381H.A.P
SG381H.A.P.A
SG381H.A.P.M

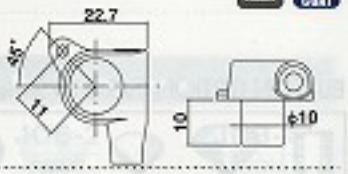
Finishes	C.GG.B.VC
Mission	1:16
e.g.	SG381-F20 SG381-P7-L HAPM SG381-07-R MG



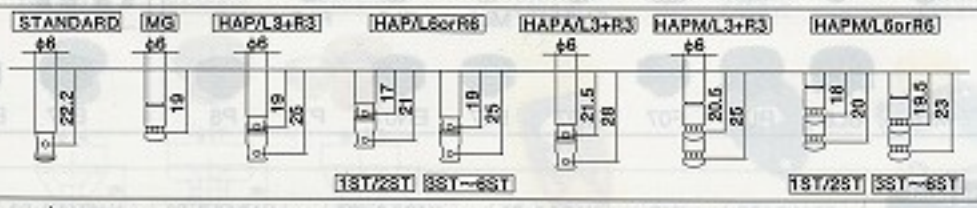
SGM

SGM
SGMMG

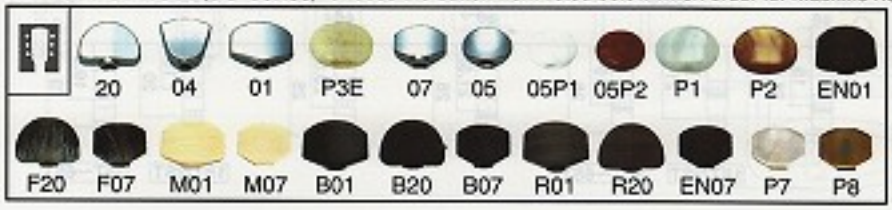
Finish	C
Mission	1:16
e.g.	SGM-07-L SGM-05-R SGM-01 MG

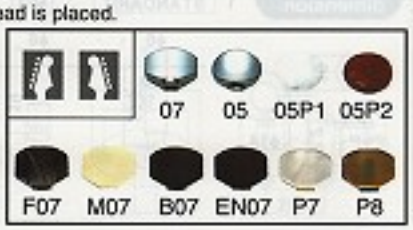


String post dimension



BUTTON OPTION (SG Series) Choose the button from listed below when order for machine head is placed.

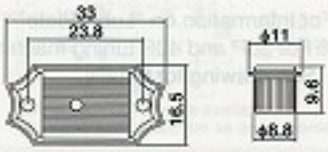




SD90

SD90
SD90MG
SD90H.A.P
SD90H.A.P.A
SD90H.A.P.M

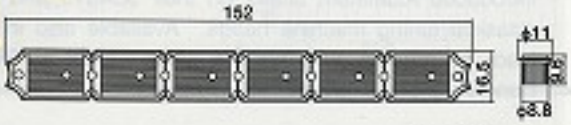
Finishes	N.GG.B.VC
Mission	1:15
e.g.	SD90-SL SD90-05MP2 HAPA SD90-05MP2 MG



SD91

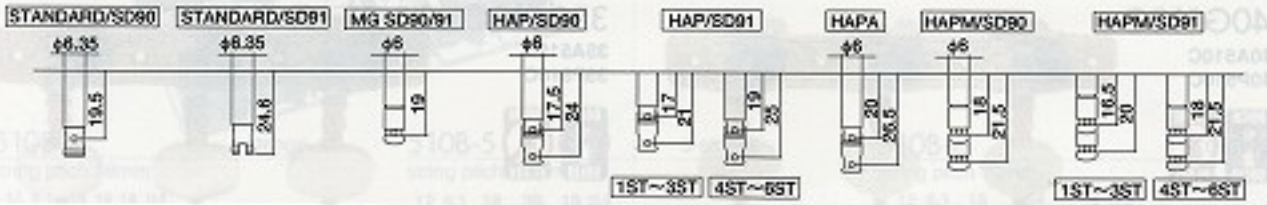
SD91
SD91MG
SD91H.A.P
SD91H.A.P.A
SD91H.A.P.M

Finishes	N.GG.B.VC
Mission	1:15
e.g.	SD91-05M-L MG SD91-06M-L HAP SD91-05MA-R



Shaft pitch 23.8mm

String post dimension



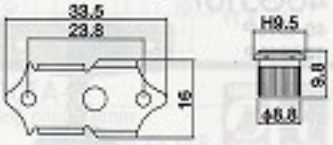
Incorporating the new self-stop nut and "Rock-Solid"™ String posts on these open gear tuning machine heads. Performance is dramatically improved. Mounting hole spacing is compatible to SD90/SD91 screw hole location.
For information on 'Rock-Solid'™ String post system, see page 1.

※Self-stop nut(PAT.P)

SD700

SD700
SD700MG

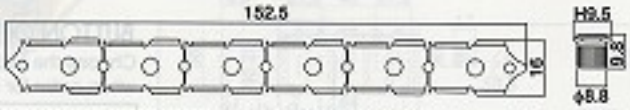
Finishes	N.C.GG.B.VC
Mission	1:15
e.g.	SD700-06M SD700-05MA MG SD700-05M



SD701

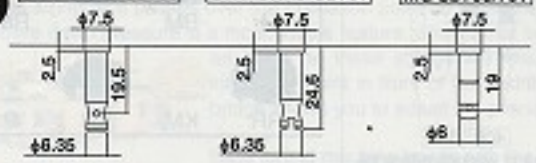
SD701
SD701MG

Finishes	N.C.GG.B.VC
Mission	1:15
e.g.	SD701-05M-L SD701-05MA-R SD701-05M-L MG



Shaft pitch 23.8mm

String post dimension



BUTTON OPTION (SD Series)

Choose the button from listed below when order for machine head is placed.

SL Button is unavailable for SD700/SD701

Finishes : N-Nickel, C-Chrome, GG-Gold, B-Black Chrome, VC-Violet Chrome

Classic Guitar Machine Heads

Due to the open design of classical tuning machine head gear assemblies, keeping them lubricated has always been a problem. Grease and oil easily ran out, marking the guitars finish and causing problems with reliability due to wear. New 510 series utilising Gotohs' revolutionary "Lubri-Plate"™ system and "Rock-Solid"™ post technology makes problems with this type of tuner a thing of the past.

For information on "Lubri-Plate"™ and "Rock-Solid"™ String posts systems see page 1.

※For 35P and 40P tuning machine heads with P-Post, some modification to your guitars headstock may be necessary. See drawing for details.

Plastic or Bone string shafts on classical style tuning machine heads are prone to cracking or breaking after long periods of use. To eliminate this problem Gotoh have introduced Aluminum shafts on their 35A510 and 40A510 classical tuning machine heads. Available also in gold or black by request, they are the same weight as Plastic or Bone but much stronger.

40G 510C
40G 510P
35G 510C
35G 510P

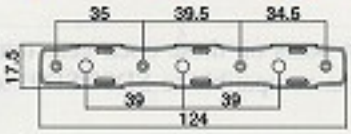
40A 510C
40A 510P
35A 510C
35A 510P

40P 510C
40P 510P
35P 510C
35P 510P

510 Series

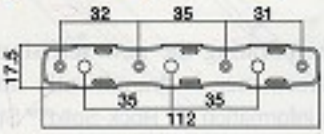
40G510C
40A510C
40P510C

Finish	GG
Mission	1:16
e.g.	40G510C-M 40A510C-RR 40P510C-KM



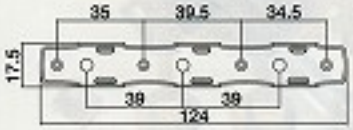
35G510C
35A510C
35P510C

Finish	GG
Mission	1:16
e.g.	35G510C-M 35A510C-KM 35P510C-EN



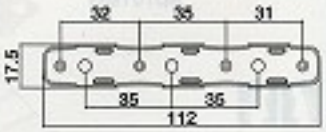
40G510P
40A510P
40P510P

Finish	GG
Mission	1:16
e.g.	40A510P-P 40P510P-KR 40G510P-BM

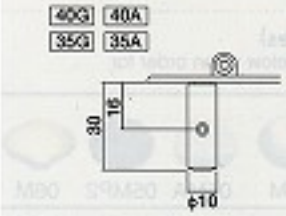


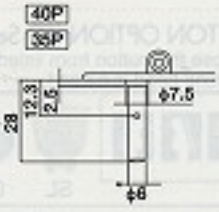
35G510P
35A510P
35P510P

Finish	GG
Mission	1:16
e.g.	35A510P-BM 35P510P-RM 35G510P-P



String post dimension





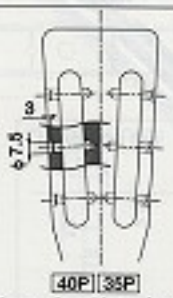
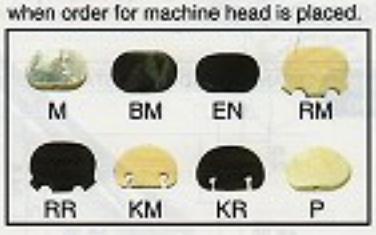


Figure of working reference

BUTTON OPTION (510 Series)

Choose the button from listed below when order for machine head is placed.



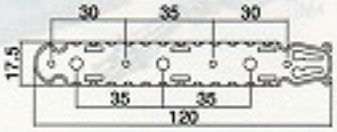
40G2000/35G6500/1800/1600/480 equip "Rock-Solid"™ String posts as standard.
For detailed information on "Rock-Solid"™ String posts see page 1 ※For 35P and 40P tuning machine heads with P-Post, some modification to your guitars headstock may be necessary. See drawing for details.

40G2000
40P2000

Finish	GG
Mission	1:14
e.g.	40G2000-1W 40P2000-EW

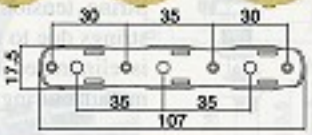
35G6500
35P6500

Finish	SB
Mission	1:14
e.g.	35G6500-EN 35P6500-2R



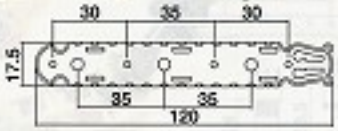
35G1800
35P1800

Finish	SB
Mission	1:14
e.g.	35G1800-1M 35P1800-2W



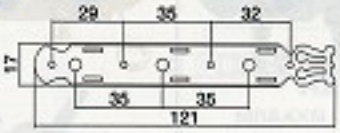
35G1600
35P1600

Finish	GG
Mission	1:14
e.g.	35G1600-1R 35P1600-2M



35G480
35P480

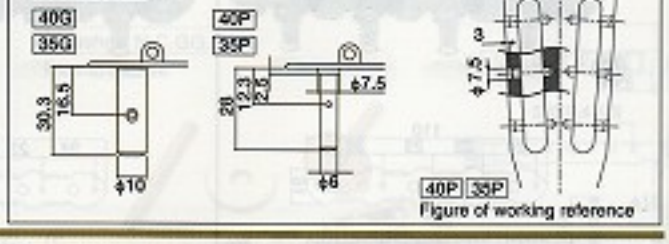
Finish	GG
Mission	1:14
e.g.	35G480-EW 35P480-EI



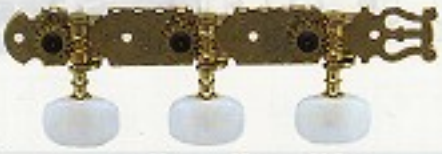
BUTTON OPTION (35G Series)

Choose the button from listed below when order for machine head is placed.

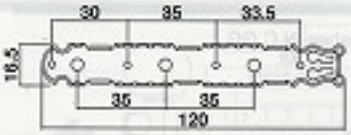
String post dimension



35G420
35P420

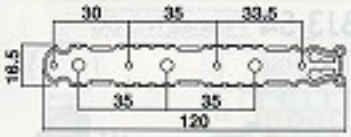


Finish	SG
Mission	1:14



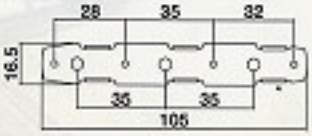
35G350
35P350

Finish	N
Mission	1:14

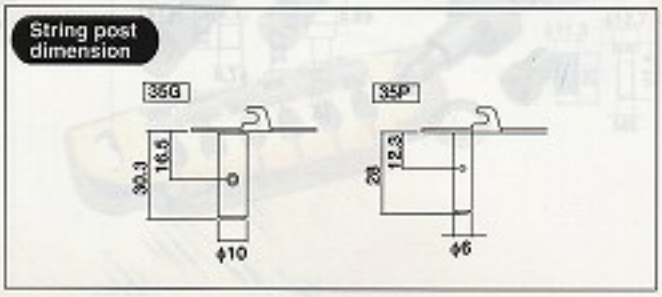


35G107
35P107

Finish	N
Mission	1:14



String post dimension



Finishes : N-Nickel, GG-Gold, SB-Solid Brass, SG-Semi Gold

Ukulele Peg

UKB
Finishes N.GG

UK-3W
Finishes N.GG

UK-3R
Finishes N.GG

UK-41
Finishes N.GG

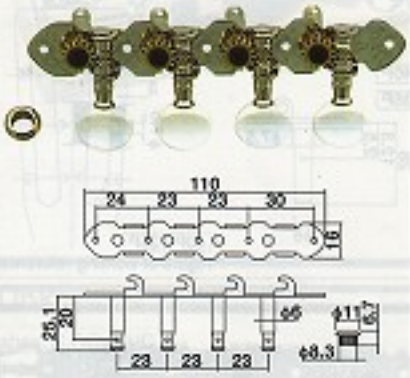
UK-4B
Finishes N.GG

UK3 /UK4 Series

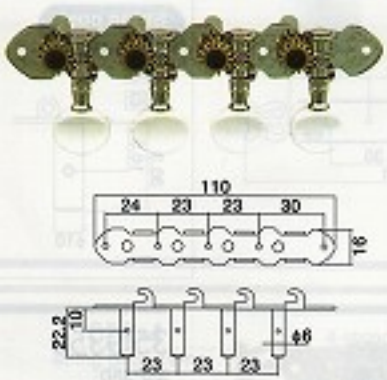
Where Aluminum is used on these tuners nickel or gold plating is still employed so as to minimize marking of the shaft, due to string windings. String tension causing de-tuning of strings due to reverse post movement is eliminated due to Gotohs' unique manufacturing techniques.

Mandolin Machine Heads

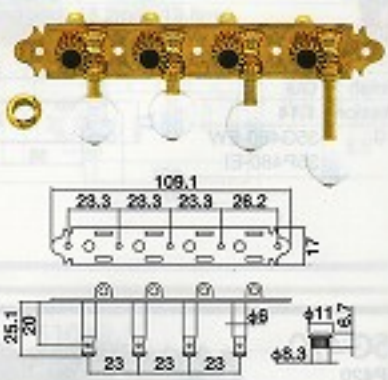
M120
Finishes N.GG Mission 1:14



M120S
Finishes N.GG Mission 1:14



FM
Finishes N.GG Mission 1:14



Banjo Tuner

BJ3-S4
Finishes N.C.GG

BJ3-S5
Finishes N.C.GG

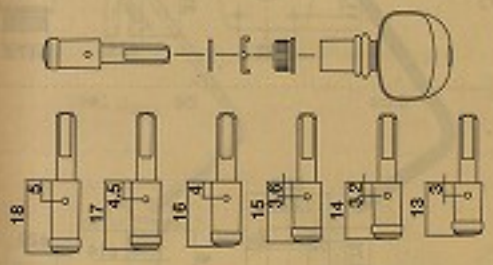
Finishes : N-Nickel, C-Chrome,GG-Gold

Marvel Violin Tuner

MVT-440T

J-440T

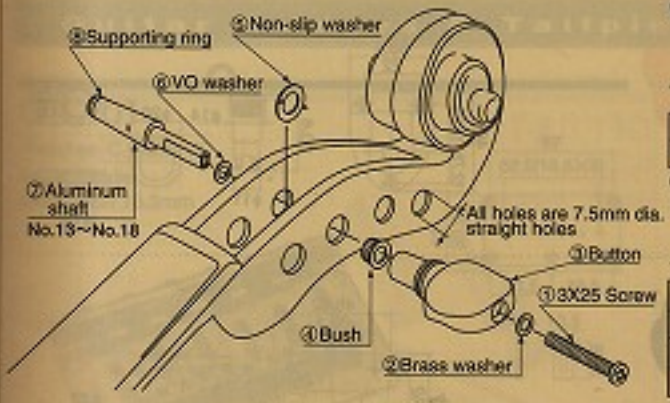
MVT-440T Special assembling tool



MVT-440T (PAT.P) Feature

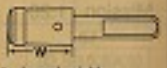
- MVT-440 tuner does not require a tapered hole to mount thereby making installation simple and quick. This tuner will not require any further reaming or adjustments to mounting for the life of the instrument.
- Peg torque can easily be adjusted by the simple turn of a screw.
- Anyone can complete the installation with the special tool (option).
- VO washer/spacer makes tuning smooth and easy giving greater control over small adjustments.
- Hardened aluminium string shaft will give extra longlife. Parts are easily replaced if damaged.
- Indistinguishable from a wooden tuner in looks and weight, approx 7 gms.

MVT-440T Parts List



◆ W parts length

	No.18	No.17	No.16	No15	No.14	No.13
W (mm)	18	17	16	15	14	13



Choose from No.18 - No. 13 of aluminum shafts according to head width.
For manufacturers order, a particular shaft dimension is acceptable.

◆ MVT440T Combination list

	No.18	No.17	No.16	No15	No.14	No.13
MVT440T-A	○	○	○	○		
MVT440T-B		○	○	○	○	
MVT440T-C			○	○	○	○

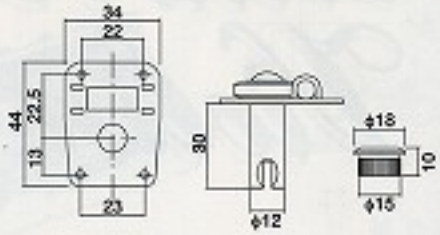
Specify shaft number for a special set of not listed above.
(Example: MVT440T-18/15/16/13)

Bass Guitar Machine Heads

L2+R2 L4 for Right Hand R4 for Left Hand

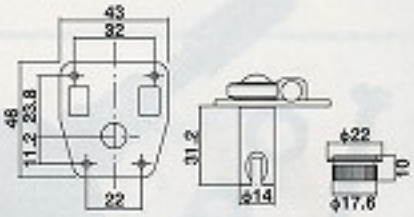
GB1

Finishes	N.GG.B.VC
Mission	1:21



GB2

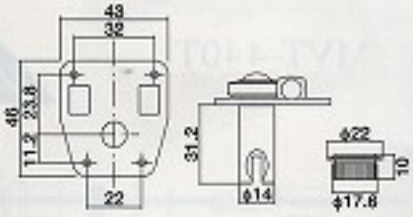
Finishes	N.GG.B.VC
Mission	1:26



GB29

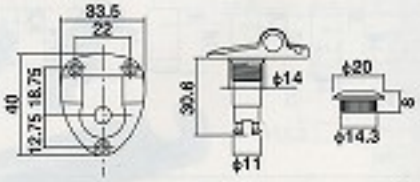
Finishes	N.GG.B.VC
Mission	1:26

Reverse wind



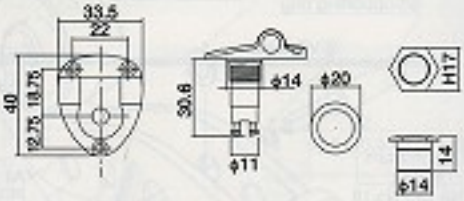
GB11

Finishes	C.GG.B.VC
Mission	1:20



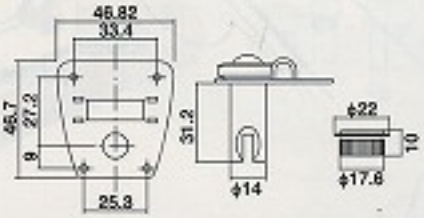
GB11W

Finishes	C.GG.B.VC
Mission	1:20



FB3

Finishes	N.GG.B.VC
Mission	1:20

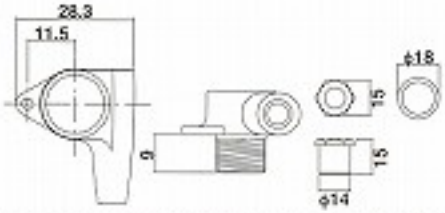


GB70

GB70
GB70H.A.P

Finishes	C.GG.B.VC
Mission	1:20

World design Pat.

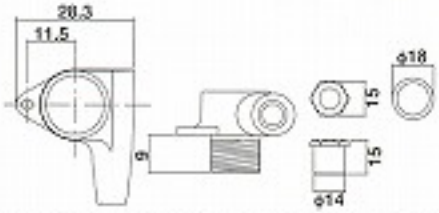


GB72

GB72
GB72H.A.P

Finishes	C.GG.B.VC
Mission	1:20

Aluminum shaft
Plastic button
World design Pat.

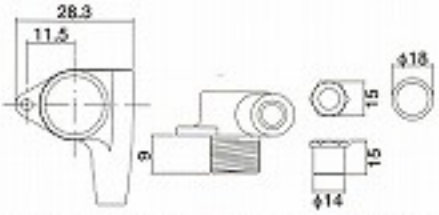


GB73

GB73
GB73H.A.P

Finishes	C.GG.B.VC
Mission	1:20

Aluminum shaft
Plastic button
World design Pat.

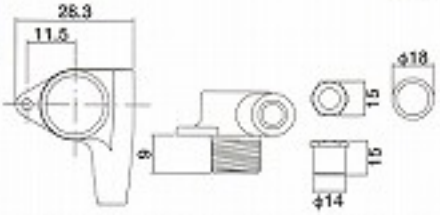


GB74

GB74
GB74H.A.P

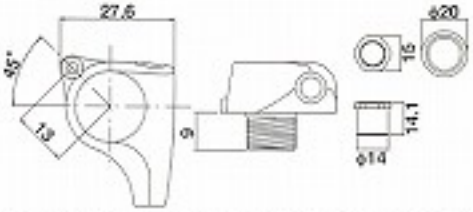
Finishes	C.GG.B.VC
Mission	1:20

Aluminum shaft
Plastic button
World design Pat.



GBS510 H.A.P

Finishes	C.GG.B.VC
Mission	1:22



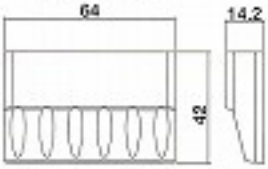
String post dimension

Finishes : N-Nickel, GG-Gold, B-Black Chrome, VC-Violet Chrome

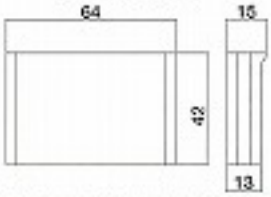
Tremolo Units

510T series Vibrato bridges have precision machined Chrome Molybdenum Steel knife edges and top plates. Heat treated and case hardened to Rockwell 45 "C" scale these knife edges are made for long life and low wear giving years of trouble free use.
Unique design of block allows strings to contact saddle without touching the block (see illustration FST "Patented") this gives direct pressure on the intonation point of the saddle for better sustain and minimises string "hang up" giving increased tuning stability.

510T block



510TS block

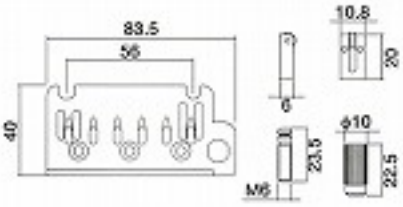


510 TS features a Steel block, not FST function.

510T-RS1
510TS-RS1

Finishes C.GG.B.VC

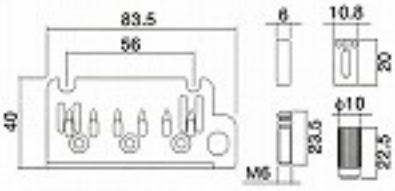
Steel saddle with roller,
string pitch 10.8mm
Stud lock-Pat.



510T-FE1
510TS-FE1

Finishes C.GG.B.VC

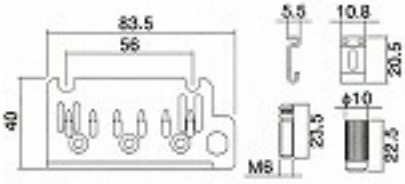
Steel saddle,
string pitch 10.8mm
Stud lock-Pat.



510T-SF1
510TS-SF1

Finishes C.GG.B.VC

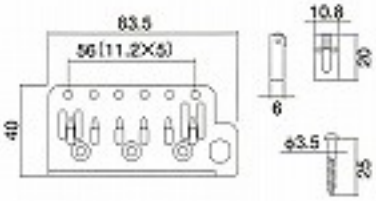
Steel (sheet metal) saddle,
string pitch 10.8mm
Stud lock-Pat.



510T-RS2
510TS-RS2

Finishes C.GG.B.VC

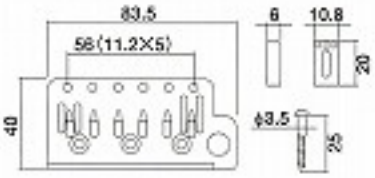
Steel saddle with roller,
string pitch 10.8mm



510T-FE2
510TS-FE2

Finishes C.GG.B.VC

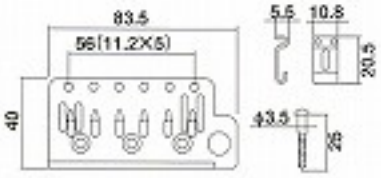
Steel saddle,
string pitch 10.8mm



510T-SF2
510TS-SF2

Finishes C.GG.B.VC

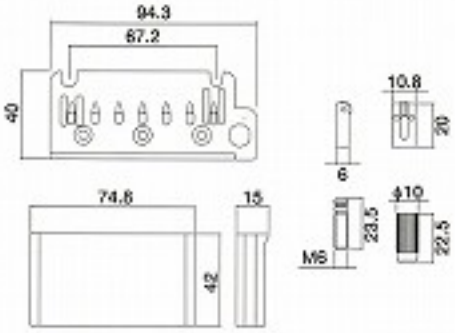
Steel (sheet metal) saddle,
string pitch 10.8mm



GE107T-RS

Finishes C.GG.B.VC

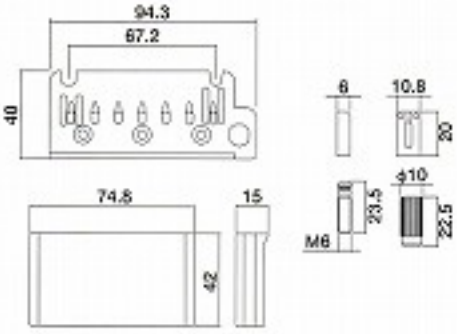
Steel saddle with roller,
string pitch 10.8mm
Steel block
Stud lock-Pat.



GE107T-FE

Finishes C.GG.B.VC

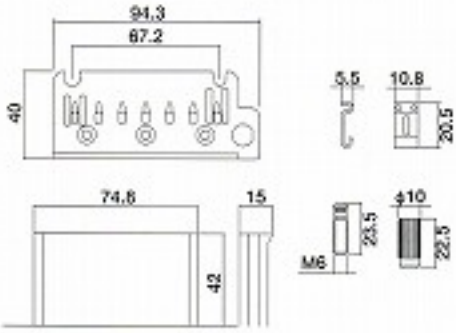
Steel saddle,
string pitch 10.8mm
Steel block
Stud lock-Pat.



GE107T-SF

Finishes C.GG.B.VC

Steel (sheet metal) saddle,
string pitch 10.8mm
Steel block
Stud lock-Pat.

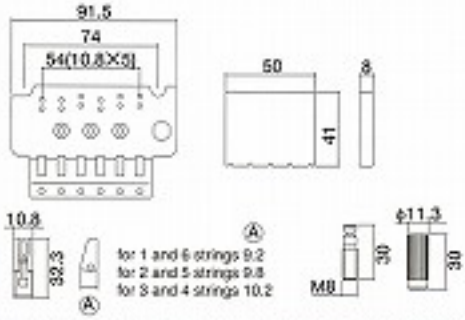


Finishes : C-Chrome, GG-Gold, B-Black Chrome, VC-Violet Chrome

GE1996T

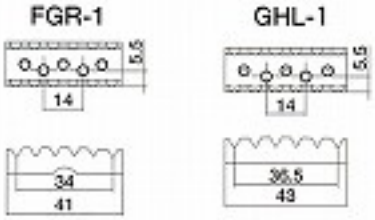
Finishes C.GG.B.VC

Specially processed steel saddle,
string pitch 10.8mm
Stud lock-Pat.



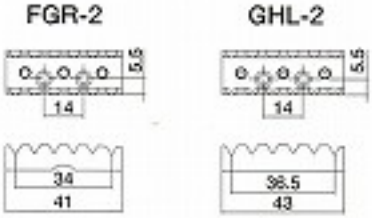
FGR-1
GHL-1

Finishes C.GG.B.VC



FGR-2
GHL-2

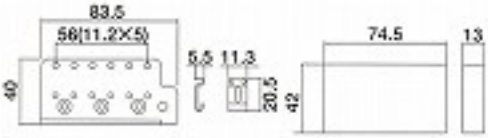
Finishes C.GG.B.VC



GE101T

Finishes C.GG.B.VC

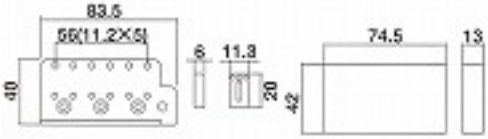
Steel (sheet metal) saddle,
string pitch 11.3mm



GE102T

Finishes C.GG.B.VC

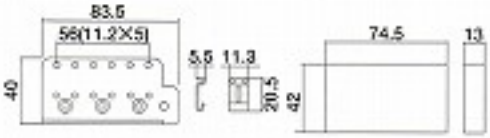
Steel saddle,
string pitch 11.3mm



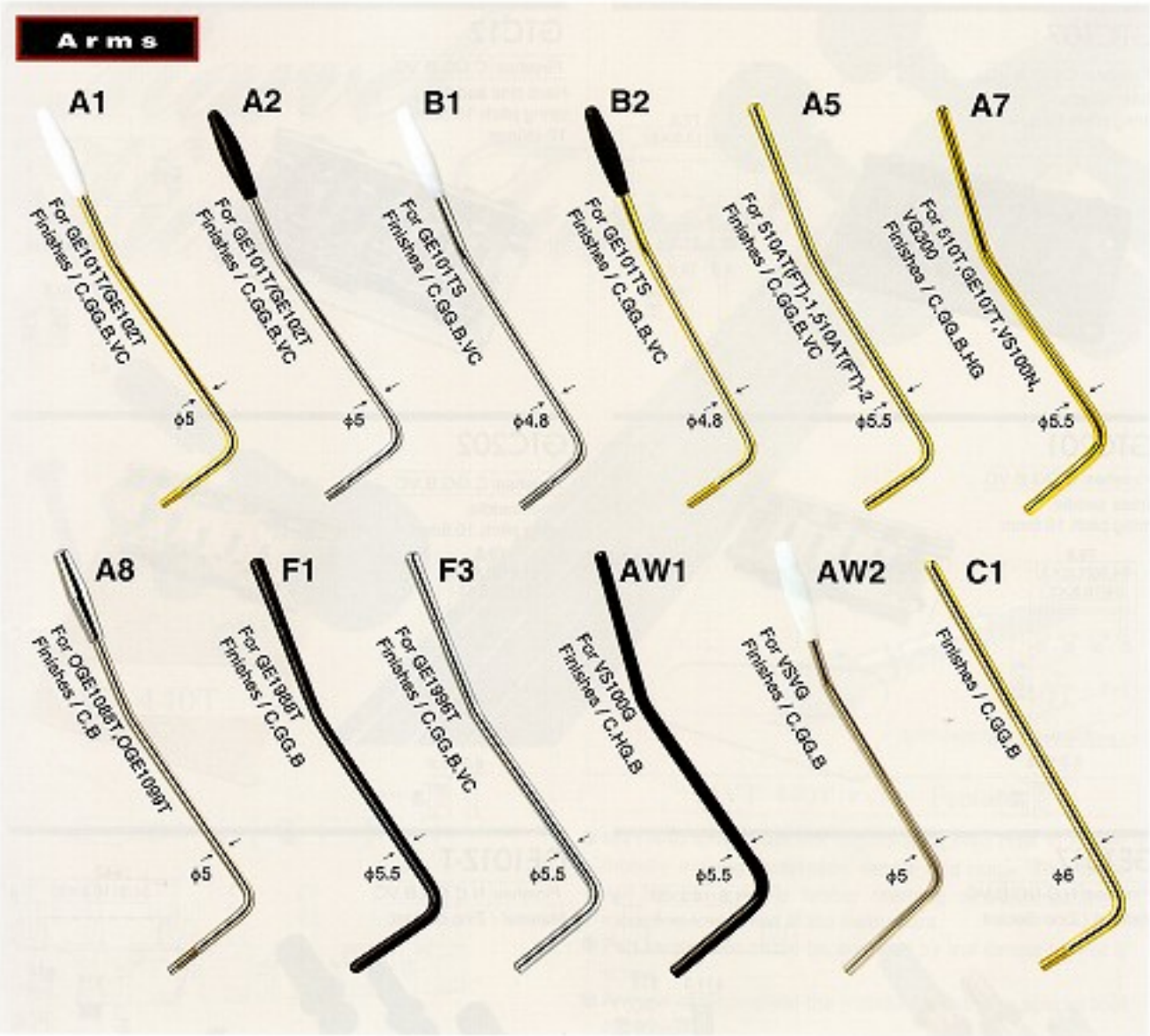
GE101TS

Finishes C.GG.B.VC

Steel (sheet metal) saddle
with U.S.A. threads screws,
string pitch 11.3mm
Steel block



Arms

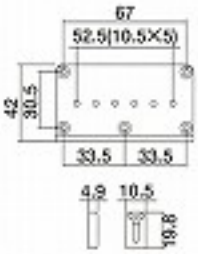


Guitar Bridges & Tailpieces

GTC101

Finishes C.GG.B.VC

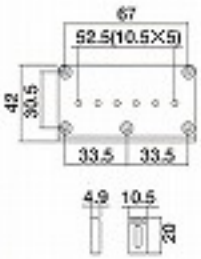
Brass saddle,
string pitch 10.5mm



GTC102

Finishes C.GG.B.VC

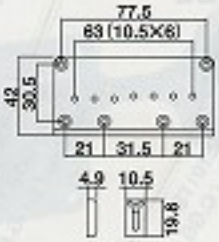
Steel saddle,
string pitch 10.5mm



GTC107

Finishes | C.GG.B.VC

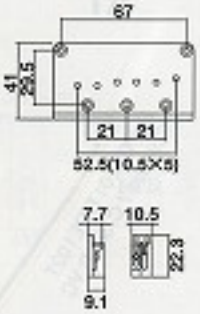
Steel saddle,
string pitch 10.5mm



GTC12

Finishes | C.GG.B.VC

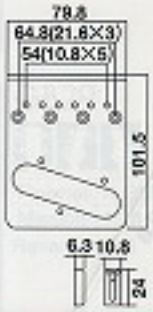
Hard zinc saddle,
string pitch 10.5mm
12-strings



GTC201

Finishes | C.GG.B.VC

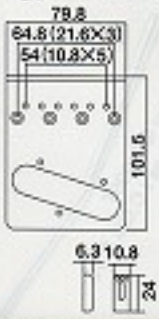
Brass saddle,
string pitch 10.8mm



GTC202

Finishes | C.GG.B.VC

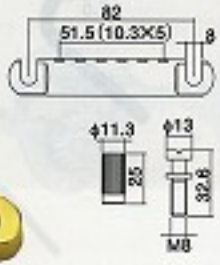
Steel saddle,
string pitch 10.8mm



GE101Z

Finishes | N.C.GG.B.VC

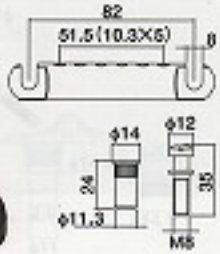
Material / Zinc diecast



GE101Z-T

Finishes | N.C.GG.B.VC

Material / Zinc diecast



GE101A

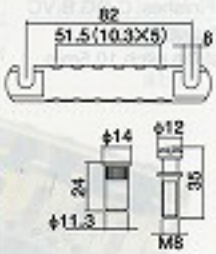
Finishes | N.C.GG.B.VC

Material / Aluminum

GE101A-T

Finishes | N.C.GG.B.VC

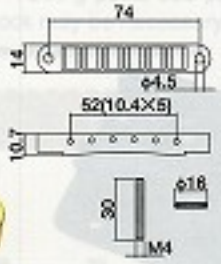
Material / Aluminum



GE103B

Finishes | N.C.GG.B.VC

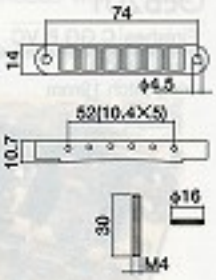
Hard zinc saddle



GEP103B

Finishes | N.C.GG.B.VC

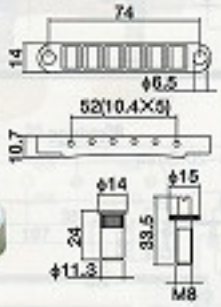
Plastic saddle



GE103B-T

Finishes | N.C.GG.B.VC

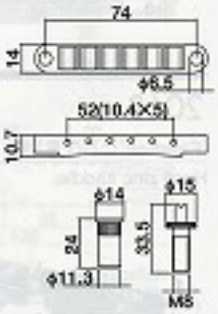
Hard zinc saddle



GEP103B-T

Finishes | N.C.GG.B.VC

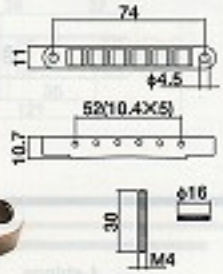
Plastic saddle



GE104B

Finishes | N.C.GG.B.VC

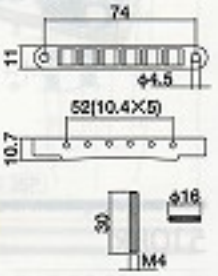
Hard zinc saddle



GEP104B

Finishes | N.C.GG.B.VC

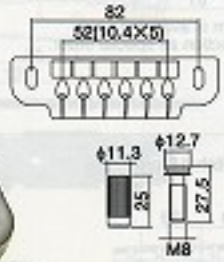
Plastic saddle



510UB

Finishes | C.GG.B.VC

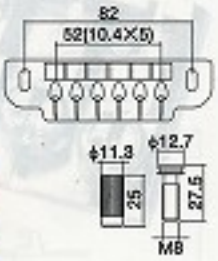
Hard zinc saddle
Stud lock-Pat.



P510UB

Finishes | C.GG.B.VC

Plastic saddle
Stud lock-Pat.

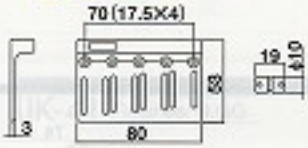


Finishes : N-Nickel, C-Chrome, GG-Gold, B-Black Chrome, VC-Violet Chrome

GEB201

Finishes | C.GG.B.VC

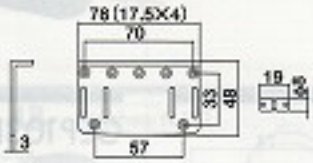
Brass saddle,
string pitch 19mm



GEB203

Finishes | N.C.GG.B.VC

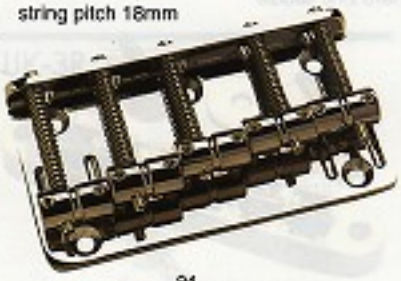
Brass saddle,
string pitch 19mm

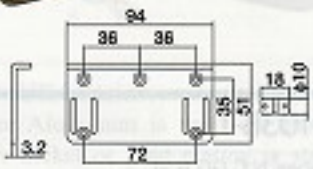


GEB205

Finishes | N.C.GG.B.VC

Brass saddle,
string pitch 18mm

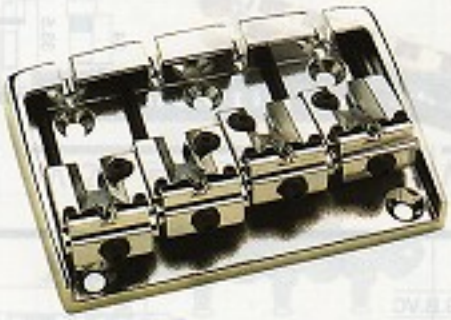




206B

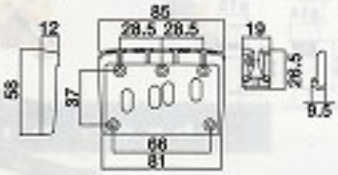
Finishes | C.GG.B.VC

Hard zinc saddle



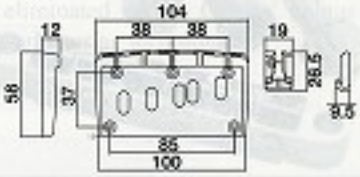
206B-4 — 4-strings

string pitch 17.6mm~20.3mm



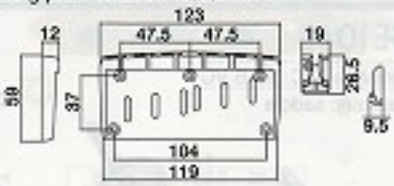
206B-5 — 5-strings

string pitch 18mm~20mm



206B-6 — 6-strings

string pitch 18.2mm~19.8mm



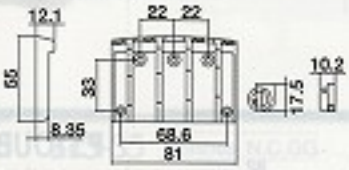
510BR

Finishes | C.GG.B.VC

Steel saddle
World design Pat.

510BR-4 — 4-strings

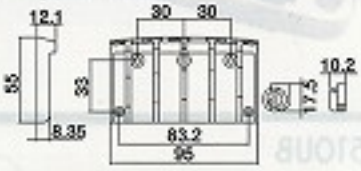
string pitch 19mm



String pitch of 18mm is available
by machining production as special order.

510BR-5 — 5-strings

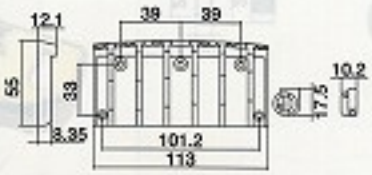
string pitch 18mm



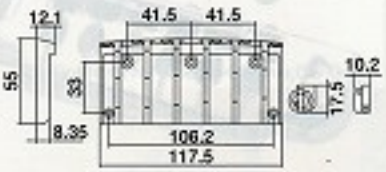
String pitch of 19mm is available
by machining production as special order.

510BR-6 — 6-strings

string pitch 18mm



string pitch 19mm



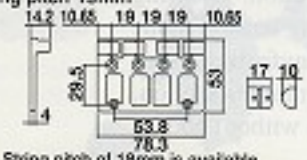
J510B

Finishes	C.GG.B.VC

Steel saddle,
Design Pat.

J510B-4 — 4-strings

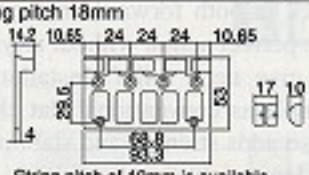
string pitch 19mm



String pitch of 18mm is available by machining production as special order.

J510B-5 — 5-strings

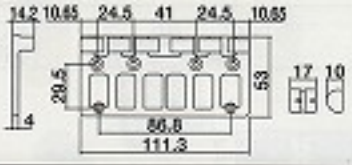
string pitch 18mm



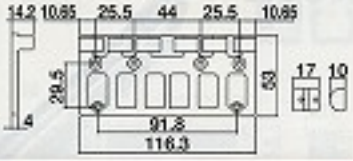
String pitch of 19mm is available by machining production as special order.

J510B-6 — 6-strings

string pitch 18mm



string pitch 19mm



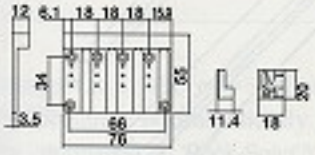
510B

Finishes	C.GG.B.VC

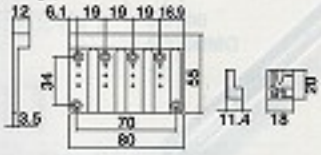
Steel saddle

510B-4 — 4-strings

string pitch 18mm

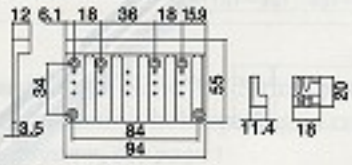


string pitch 19mm

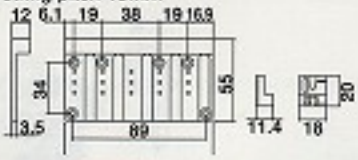


510B-5 — 5-strings

string pitch 18mm

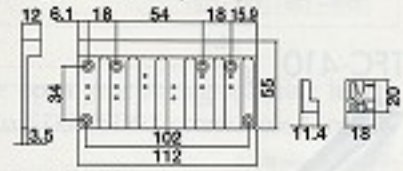


string pitch 19mm

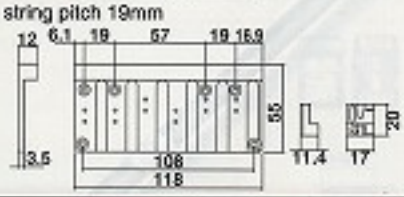


510B-6 — 6-strings

string pitch 18mm



string pitch 19mm



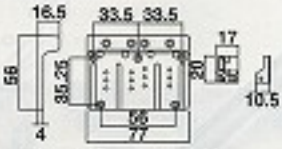
510TA

Finishes	C.GG.B.VC

Steel saddle

510TA-4 — 4-strings

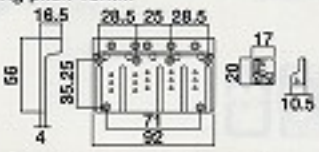
string pitch 19mm



String pitch of 18mm is available by machining production as special order.

510TA-5 — 5-strings

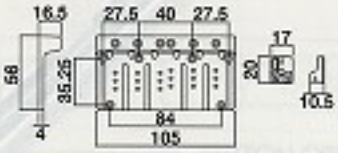
string pitch 18mm



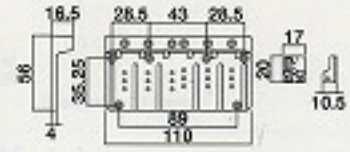
String pitch of 19mm is available by machining production as special order.

510TA-6 — 6-strings

string pitch 17mm



string pitch 18mm



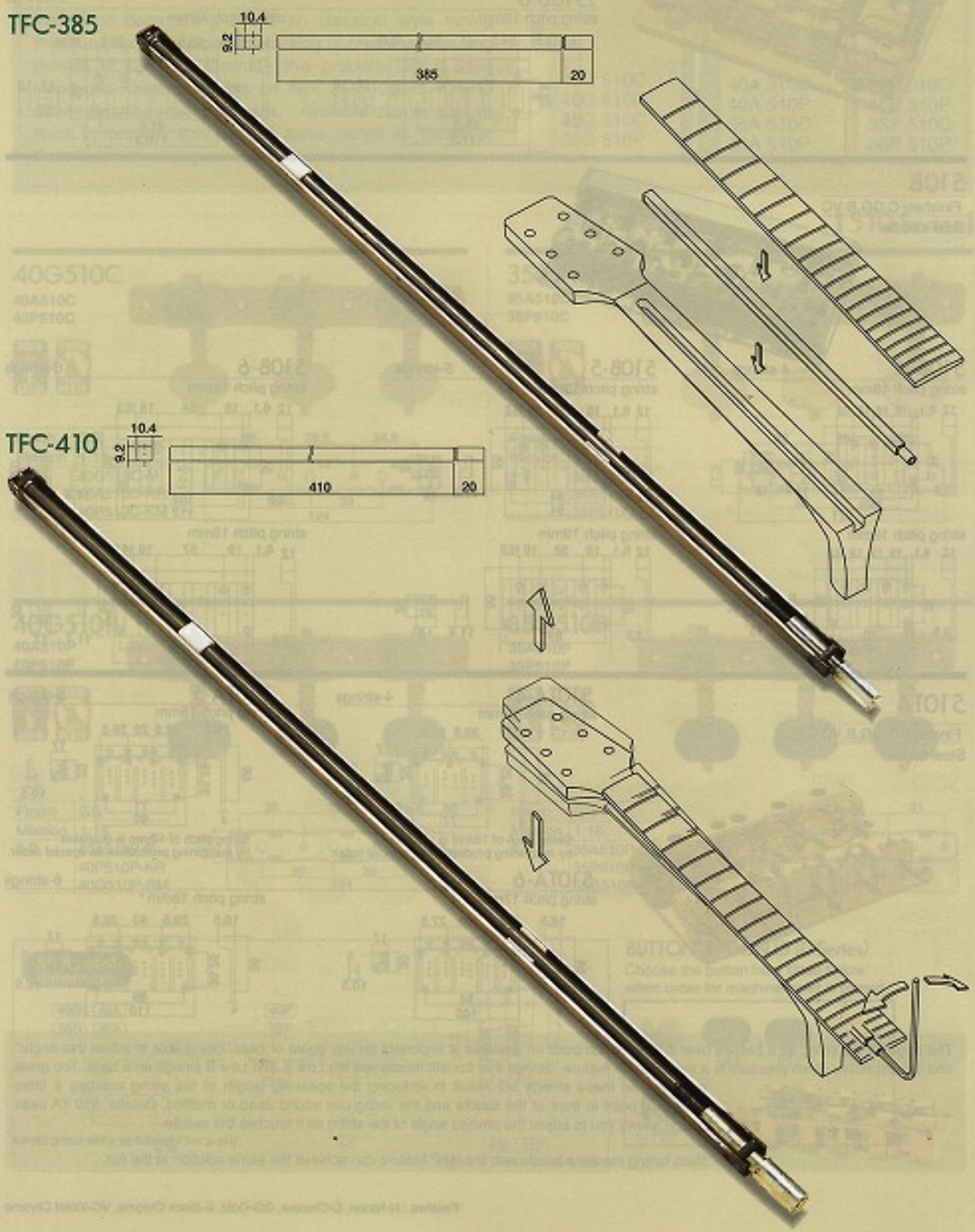
The angle of the string as it passes over the intonation point on a saddle is important on any guitar or bass. Being able to adjust this angle* and its' respective down pressure is a most usable feature. Strings that benefit mostly are the Low E and Low B strings on a bass. Too great an angle on these strings will result in reducing the speaking length of the string creating a false intonation point in front of the saddle and the string can sound dead or muffled. Gotoh's' 510 TA bass bridge allows you to adjust the precise angle of the string as it touches the saddle.

*this is not intended as a fine tuning device

Bass tuning machine heads with the HAP feature can achieve the same solution at the nut.

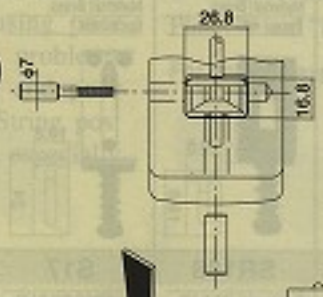
Two-way Truss Rod PAT.P

Gotohs' TFC truss rods for Acoustic guitars can adjust a neck in both forward or backwards direction. Enabling the perfect action without relying on string tension alone to give neck relief. Installation at manufacture is as simple as conventional flat channel aluminium section. Also adds strength and stability to necks without adding undue weight.

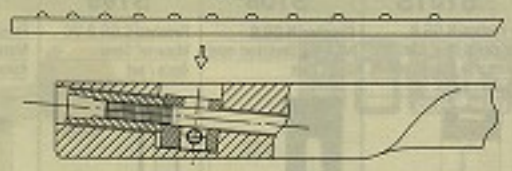


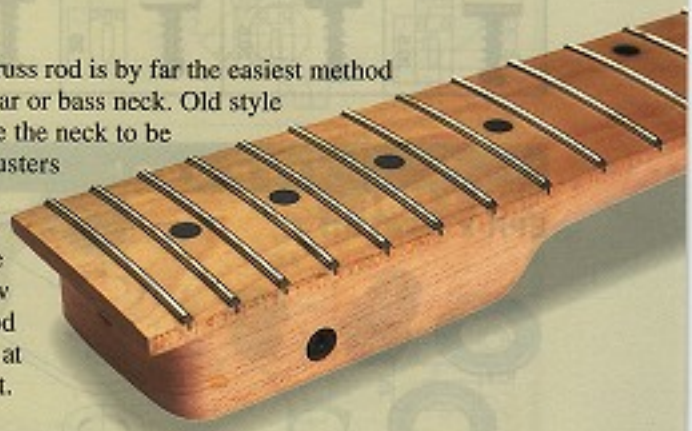
Side Adjuster PAT.

SAT-1
For one-piece neck



SAT-2
For fingerboard neck

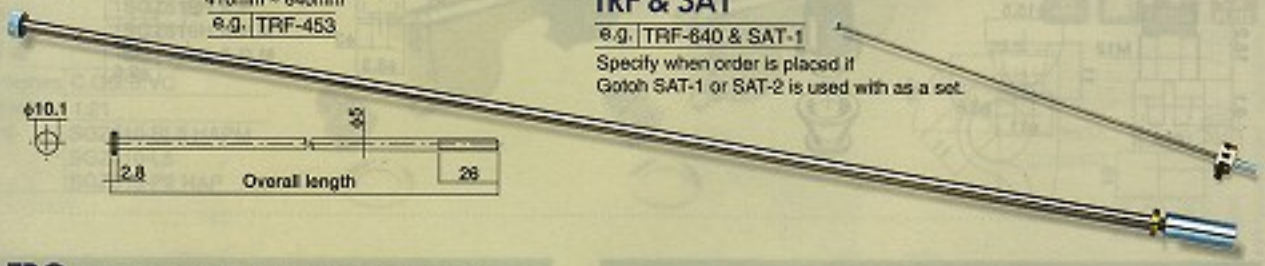




Gotohs' unique side adjusting truss rod is by far the easiest method for adjusting the relief in a guitar or bass neck. Old style heel adjusting truss rods require the neck to be removed from the body. Adjusters mounted at headstock can severely weaken a neck at this point of stress and can be difficult to adjust due to narrow spacing of strings.This truss rod is designed for installation at manufacture. It is not a retro-fit.

Truss Rod

TRF- (Overall length) Choose your desired length from 410mm ~ 640mm
e.g. TRF-453

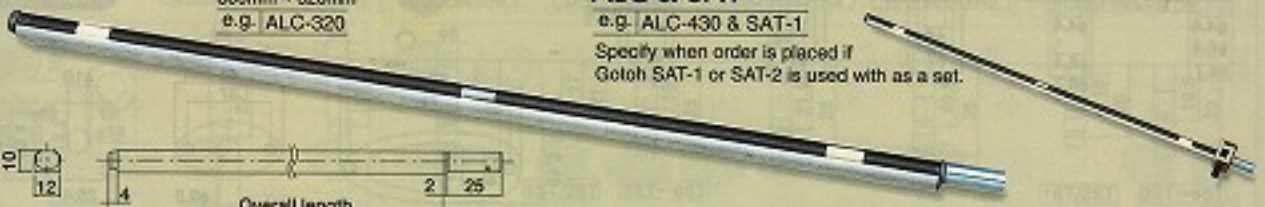


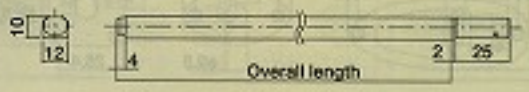
TRF & SAT
e.g. TRF-640 & SAT-1
Specify when order is placed if Gotoh SAT-1 or SAT-2 is used with as a set.

TRG- (Overall length) Choose your desired length from 410mm ~ 640mm
e.g. TRG-585

TRG & SAT
e.g. TRG-450 & SAT-2
Specify when order is placed if Gotoh SAT-1 or SAT-2 is used with as a set.

ALC- (Overall length) Choose your desired length from 300mm ~ 620mm
e.g. ALC-320



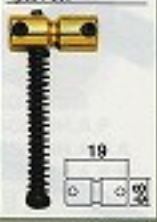


ALC & SAT
e.g. ALC-430 & SAT-1
Specify when order is placed if Gotoh SAT-1 or SAT-2 is used with as a set.

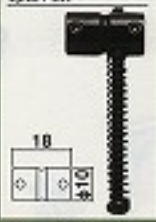
Saddle Sets

S201
Finishes: C.GG.B.VC
Material: Brass
4pcs / set

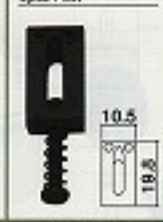
S203
Finishes: N.C.GG.B.VC
Material: Brass
4pcs / set



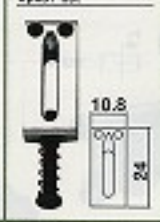
S205
Finishes: N.C.GG.B.VC
Material: Brass
5pcs / set



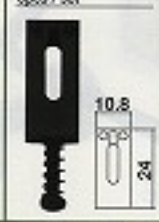
S11
Finishes: C.GG.B.VC
Material: Brass
6pcs / set



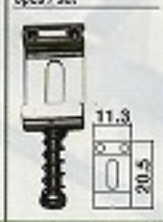
S12
Finishes: C.GG.B.VC
Material: Brass
6pcs / set



S22
Finishes: C.GG.B.VC
Material: Steel
6pcs / set



S101
Finishes: N.GG.B
Material: Steel/sheet metal
6pcs / set

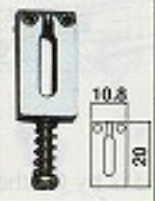


S102
Finishes: C.GG.B.VC
Material: Steel
6pcs / set

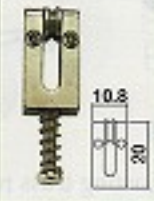
S101S
Finishes: N.GG.B
Material: Steel/sheet metal with USA threads screws
6pcs / set

S108
Finishes: N.GG.B
Material: Steel/sheet metal
6pcs / set

S199
Finishes: C.GG.B.VC
Material: Steel
6pcs / set



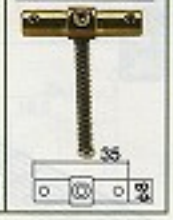
SR108
Finishes: C.GG.B.VC
Material: Steel
6pcs / set



S17
Finishes: C.GG.B.VC
Material: Steel
7pcs / set

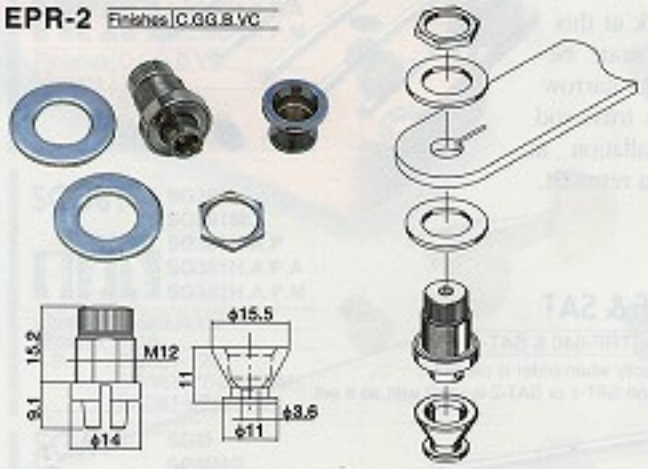
SW3
Finish: SB
Material: Brass
3pcs / set

SW2
Finish: SB
Material: Brass
2pcs / set



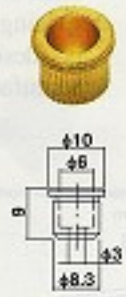
Free lock

EPR-2
Finishes: C.GG.B.VC



String Bushing

TLB-1
Finishes: N.C.GG.B.VC
for Guitar



TLB-2
Finishes: N.C.GG.B.VC
for Bass

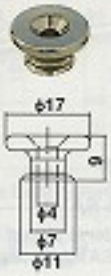
Strap Pin

EP-A1
Aminum

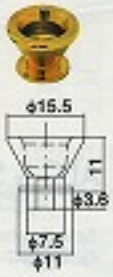
EP-B1
Finishes: N.C.GG.B.VC

EP-B2
Finishes: N.C.GG.B.VC

EP-B3
Finishes: N.C.GG.B.VC



EP-FR2
Finishes: C.GG.B.VC



Jack Cover

JCS-1
Finishes: C.GG.B.VC

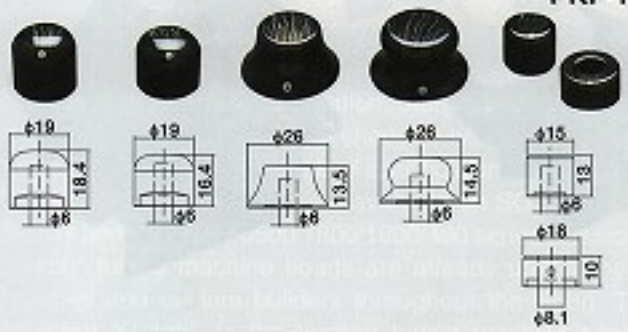
JCB-2
Finishes: C.GG.B.VC

JCB-4
Finishes: C.GG.B.VC

GOTOH Original control Knob Of Artificial Material

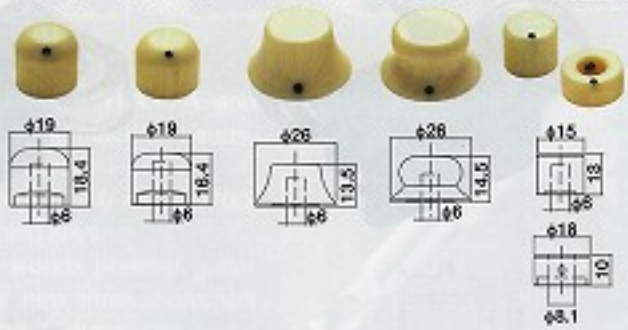
Push in type with inside rubber bush

PKF-1 **PKF-3** **PKF-5** **PKF-6** **PKF-15** **PKF-18**



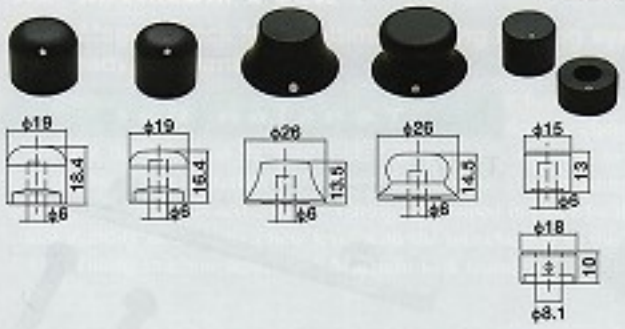
Push in type with inside rubber bush

PKM-1 **PKM-3** **PKM-5** **PKM-6** **PKM-15** **PKM-18**



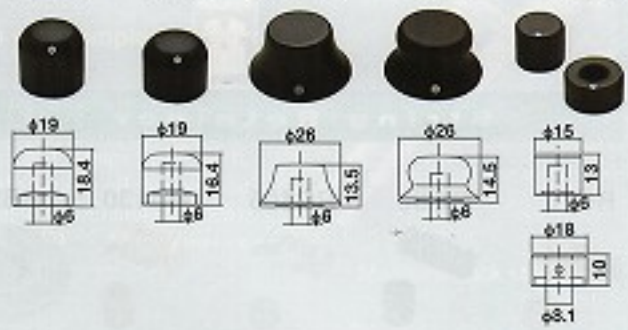
Push in type with inside rubber bush

PKB-1 **PKB-3** **PKB-5** **PKB-6** **PKB-15** **PKB-18**



Push in type with inside rubber bush

PKR-1 **PKR-3** **PKR-5** **PKR-6** **PKR-15** **PKR-18**



Dome Knob

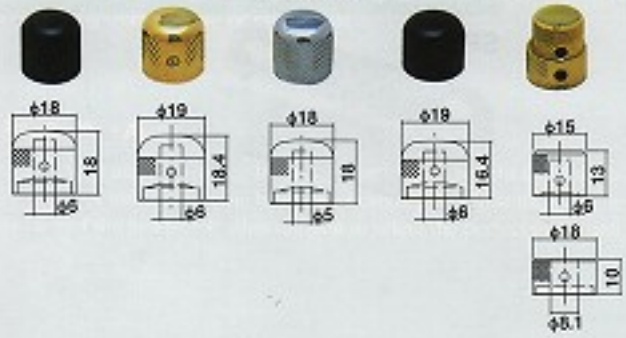
VK1-18 Finishes C.GG.B.VC

VK1-19 Finishes C.GG.B.VC

VK2 Finishes C.GG.B.VC Serration hole

VK3 Finishes C.GG.B.VC

VK15T VK18T Finishes C.GG.B.VC



Skull Knob

Push in type with inside rubber bush

SK-1 Finishes C.GG.CK.VC

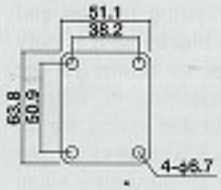
SK-2T Finishes C.GG.CK.VC Diamond eye

SK-2P Finishes C.GG.CK.VC Pink diamond eye

SK-2Y Finishes C.GG.CK.VC Yellow diamond eye

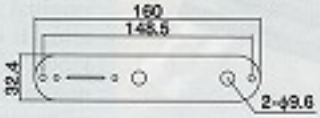
Neck Joint Plate

NBS-3 Finishes C.GG.B.VC



Control Panel

CP-10 Finishes C.GG.B.VC

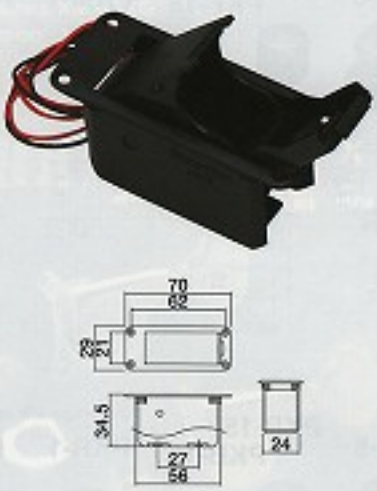


Finishes : N-Nickel, C-Chrome, CK-Cosmo Black , GG-Gold, B-Black Chrome, VC-Violet Chrome, SB-Solid Brass

Battery Box

BB-02

BB-04

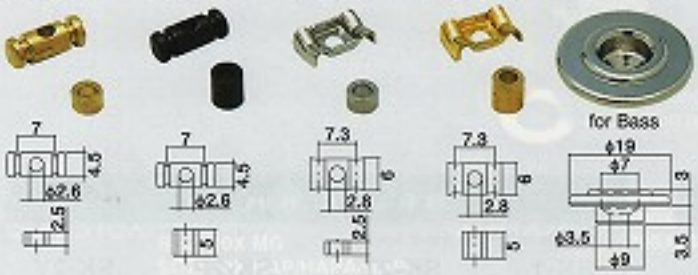


BB-04W

String Retainer

Finishes N.C.GG.B.VC

RG15 **RG30** **RG105** **RG130** **RB20**



Tension Bar

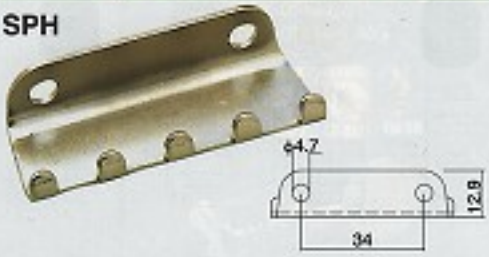
TB47.5 Finishes C.GG.B.VC
Screw-Black only

Wrench Holder

WRH-1 **WRH-1W**

Spring Holder

SPH



Spring

SP

Power Spring

Vibrato bridge is balanced by string tension and coil springs used for pulling its block and it is only by the power of coil springs to return to the original position after dive bombing of vibrato arm. It is important to have durable spring for all kinds of vibrato bridge and PSP power spring minimizes tuning instability by its durability when using vibrato.

PSP

GOTOH Special Plating Colors

COSMO BLACK COLOR (CK)

※Available except for some models. ※Requires minimum lot for production

HONED FINISH (HC/HG/HB)

※SG360 and SG381 are available in honed finishes for matching Wilkinson bridge VS100N.

GOTOH Display Packages

Finishes : N-Nickel, C-Chrome, GG-Gold, B-Black Chrome, VC-Violet Chrome

G GOTOH®

Address : 3040 Miyako-cho, Isesaki, Gunma, 372-0801 Japan
TEL : 0270-25-3608 FAX : 0270-23-8432

GOTOH® GUITAR HARDWARE and MACHINE HEADS are sold and serviced by

Specifications subject to change for further quality improvement without notice.

Design by Prop One , Photo by Satoshi Mizutani (Prop One)