

GROVER[®]

WORLD'S FINEST MACHINE HEADS

FROM OUR NEWEST BREAKTHROUGHS, TO OUR TIMELESS, TRUSTED CLASSICS, GROVER CAN KEEP ANYONE LOOKING AND SOUNDING THEIR ABSOLUTE BEST!



KEEPING SOME OF THE WORLD'S FINEST GUITARS IN TUNE FOR ALMOST A CENTURY



For almost a century, we've been keeping the world's finest string instruments in tune. It started in the late 1800's when Grover first produced a few guitar and banjo machine heads, then expanded into additional production of tuners for bass guitar, pedal steel, mandolin, dulcimer, ukulele and violin. While many changes have taken place over the years, the one constant has been that we continue to supply the music industry with the finest products available. From the world's first enclosed, permanently lubricated machine heads, to our newest technological breakthroughs, the one-step self lock, we are proud to be original equipment on many of the world's finest string instruments.

Since our production process utilises only the top of the line quality standards, we proudly stand behind our machine heads with the following lifetime warranty... should your Grover tuners ever fail, for any reason, simply return them to us for a fast and friendly no charge repair or replacement. If you are already using Grover products, thank you for your support in making Grover the most trusted name in music around the world.

If not, maybe it's time to "Change Over to Grover!"

Richard Berger,
President

Finishes and Specifications

FINISHES

Availability varies with each style. Check under individual product descriptions.



N Nickel



BC Black Chrome



C Chrome



G Gold



BN Black Nickel

POST HOLE SIZES

Many of the Grover tuners will fit the existing holes in the headstock without any modification at all. However, we realise sometimes the existing holes need to be enlarged a bit in order for our tuners to fit properly. As a result, we have provided the chart below showing the exact drill bit needed for each tuner series. Please note, always enlarge the hole size from the front, or face, of the headstock.

Tuner Series	Hole size
102	25/64"
106	25/64"
109	25/64"
115	21/64"
116	23/64"
117	21/64"
118	21/64"
121	3/8"
122	3/8"
123	3/8"
124	3/8"
133	23/64"
135	25/64"

Tuner Series	Hole size
136	25/64"
138	23/64"
142	45/64"
144	35/64"
145	21/32"
150	25/64"
162	11/32"
205	25/64"
210	25/64"
303	25/64"
305	25/64"
306	25/64"
308	21/64"

Tuner Series	Hole size
406	25/64"
502	25/64"
505	25/64"
H97	15/64"
V97	23/64"
H98	15/64"
V98	23/64"
2	21/64"
4	5/16"
5	11/32"
25	11/32"
75	11/32"
85	11/32"

Replacement Buttons for Machine Heads



GX136
Full size imitation
mother-of-pearl



102E Full size ebony



205E Mini size ebony

IT'S SHOWTIME. THE CROWD IS ON THEIR FEET. JUST A FEW SECONDS BEFORE YOUR FIRST CHORD... I HOPE THOSE ARE GROVERS.

Grover Rotomatics®



ORIGINAL ROTOMATICS® (102 SERIES)

These guitar machines are a triumph in engineering and styling. The housing provides a maximum bearing for worm, gear and string post. Gear ratio is 14 to 1. Worm and gear are precision-cut for perfect meshing. This eliminates backlash and slippage. Countersunk tension screw permits players to regulate turning tension to any degree. Gear box has a special lubricant for lifetime, trouble-free service. Includes 5/8" washers, bushings and wood screws.

For standard guitars, set of 6, (102N Nickel), (102BC Black Chrome), (102C Chrome), (102G Gold)



ROTOMATICS® WITH 18:1 GEAR RATIO (102-18 SERIES)

The original Rotomatic® with an improved higher ratio gearing. The 18:1 ratio provides for finer tuning and greater stability. The finer gears provide smoother tuning and a higher degree of backlash elimination. This new version of the Rotomatic® uses the exact housing as the original. Only the gearing has changed. Includes washers, bushings, and wood screws.

For standard guitars, set of 6, (102-18N Nickel), (102-18BC Black Chrome), (102-18C Chrome), (102-18G Gold)



SUPER ROTOMATICS® (109 SERIES)

The super Rotomatic® has a 14 to 1 gear ratio. The 3 step button gives this machine a distinctive look and the sealed-in lubrication assures smooth gear-and-worm movement for the life of the machine.

3 treble and 3 bass, set of 6, (109BC Black Chrome), (109C Chrome), (109G Gold)



MID-SIZE ROTOMATICS® (305 SERIES)

A mid size Mini Rotomatic, with all the advantages of the original Mini Rotomatic, but with an 18:1 gear ratio for finer, more precise tuning. Includes all necessary mounting hardware and the famous Grover lifetime guarantee.

3 Treble and 3 bass, set of 6: (305C Chrome), (305G Gold) 6-in-line, set of 6: (305C6 Chrome), (305G6 Gold)
Left-hand 6-in-line, set of 6: (305CL6 Chrome) 12-string, set of 12: (305C12 Chrome)



MINI ROTOMATICS® (205 SERIES)

Totally professional in design and performance. Small, lightweight, this precision made machine fits guitar headpieces that will not take full size machines. The mini buttons provide more space for player's fingers (even large fingers) to tune strings. Gear ratio is 14 to 1. Sealed in lubrication keeps the mini perfect for a lifetime! Includes 5/8" washers, bushings and wood screws.

3 treble and 3 bass, set of 6, (205BC Black Chrome), (205C Chrome), (205G Gold)
6-in-line, set of 6, (205BC6 Black Chrome), (205C6 Chrome), (205G6 Gold)
Left-hand 6-in-line, set of 6, (205BCL6 Black Chrome), (205CL6 Chrome), (205GL6 Gold)
12-string, set of 12, (205BC12 Black Chrome), (205C12 Chrome), (205G12 Gold)



**A SELF-LOCKING MECHANISM, AN 18:1 RATIO OF PRECISION TUNING,
ALL GUARANTEED FOR LIFE...IT'S SIMPLY BREATHTAKING!**

Locking Rotomatics®



US PATENT NUMBER 6,078,001

Grover's patented locking tuners have eliminated the obstacles of other locking devices. Since there are no external mechanisms to initiate the locking action, the machine head's appearance is like any other. The entire locking mechanism is self-contained and self-actuated.



ORIGINAL LOCKING ROTOMATICS® (106 SERIES)

The introduction of the new Grover Locking Rotomatics® gives you the ease of use provided by a standard tuner and the positive locking of our internal cam post. Simply insert the string through the string hole, pull to tension by hand and begin tuning. As you start to tune, only the locking cam in the string post turns. Once the string is locked, the string post begins to turn allowing you to bring the string to pitch. In less than one revolution of the string post, you will be in tune, to stay in tune. Gear ratio is 18 to 1.
For standard guitars, set of 6, (106C Chrome), (106G Gold)



MINI LOCKING ROTOMATICS® (406 SERIES)

The same innovative engineering and classic design as the Original Locking Rotomatics®, but with smaller buttons for 6-in-line guitars, or for those who prefer a little more space for their fingers. Gear ratio is 18 to 1.
3 Treble and 3 Bass, set of 6, (406C Chrome), (406G Gold)
6-in-line, set of 6, (406C6 Chrome), (406G6 Gold)

Rotogrips®



ROTOGRIPS® (502 SERIES)

The newest addition to the Grover family, these locking machine heads utilize the famous 18:1 Rotomatic® design with a "thumb screw" mechanism which locks the string into place. Insert the string through the post hole, wrap around once, then lock by tightening with the thumb screw. Perfect replacement for the most standard machine heads. Includes all mounting hardware. 3 Treble and 3 Bass, Set of 6.
3 Treble and 3 Bass, set of 6, (502C Chrome), (502G Gold), (502BC Black Chrome)



MINI ROTOGRIPS® (505 SERIES)

A smaller version of the regular size ROTO-GRIP® lockers for the in line and smaller headstocks or for those who prefer a lighter feel.
3 Treble and 3 Bass, set of 6, (505C Chrome), (505G Gold), (505BC Black Chrome)
6-in-line, set of 6, (505C6 Chrome), (505G6 Gold), (505BC6 Black Chrome)
Left-hand 6-in-line, set of 6, (505CL6 Chrome), (505GL6 Gold), (505BCL6 Black Chrome)



THE CLASSIC STYLING OF GROVER VINTAGE TUNERS...
QUALITY AND CRAFTSMANSHIP FIT FOR A KING!

Vintage



IMPERIAL™ (150 SERIES)

Distinctive in styling and quality, the Imperial™ made it's first appearance in the 1970's. The most notable feature of this unique machine head is the futuristic Three Step button, a fresh and funky design trademarked by Grover. This re-introduction if the Imperial™ is an exact reproduction of the originals, including a 16 to 1 gear ratio.

3 treble and 3 bass, set of 6, (150C Chrome), (150G Gold)



DELUXE GUITAR MACHINES (133 SERIES)

Mechanically engineered to the most precise standards of excellence, with the classic look of vintage styling, Grover Deluxe machine heads are a timeless achievement for guitar tuning. Worm and gear are cut to mesh perfectly, thereby eliminating backlash and slippage. The housings are self-lubricating for a lifetime of trouble-free service.

For 6 string with safety post, (133N 3+3, Nickel), (133N6 6-in-line, Nickel)



VINTAGE (135 SERIES)

Our Vintage machine uses a die-cast, two-piece housing for additional strength and precision. The unique bearing surface in the housing provides a rigid string post enhancing the alignment of the gear and worm. The 14 to 1 gear ratio provides for fine tuning.

3 treble and 3 bass, set of 6, (135N Nickel), (135G Gold)



VINTAGE DELUXE (136 SERIES)

Like our Vintage machine heads, the 136 uses the same sturdy construction of our die-cast, two-piece housing. The 136 Deluce Series features a classic rounded button made popular in the 1950's. If you're going retro, the 136 series is definitely for you!

6-in-line bass side, (136N6 Nickel), (136G6 Gold) 3 treble and 3 bass, set of 6 (136N Nickel), (136G Gold)



VINTAGE (138 SERIES)

The Grover deluxe machine heads are mounted three to a plate for the vintage look that has been popular for decades. The stamped back plate provides a sturdy base for mounting vertically or horizontally on the head stock. The housings are securely fastened to the base insuring proper gear and worm alignment for accurate tuning. Bushings and screws included.

Vertical, 3 Treble and 3 Bass, Set of 6 (V138N Nickel) Horizontal, 3 Treble and 3 Bass, Set of 6, (H138N Nickel)



STA-TITE™ (97 SERIES) & STA-TITE™ 18:1 GEAR RATIO (97 SERIES)

The Original Grover Sta-Tite™ machine head. Available in 14:1 and 18:1 gear ratios. The classic styling of the Sta-Tite™ returns with the Grover name and the butter bean button identifies this as the original. Wood screws, washers, and bushings included.

14: 1, Vertical, 3 Treble and 3 Bass, Set of 6, (V97N Nickel), (V97C Chrome)

14: 1, Horizontal, 3 Treble and 3 Bass, Set of 6, (H97N Nickel), (H97C Chrome)

18: 1, Vertical, 3 Treble and 3 Bass, Set of 6, (V97-18N Nickel), (V97-18G Gold)

18: 1, Horizontal, 3 Treble and 3 Bass, Set of 6, (H97-18N Nickel)



STA-TITE™ (98 SERIES)

Beautiful machine heads with the classic round button, providing smooth, sure tuning. Heavily plated finish with a striking contrast to the brass gears. Screws and bushings inc.

Vertical, 3 Treble and 3 Bass, Set of 6, (V98N Nickel), (V98C Chrome)

Horizontal, 3 Treble and 3 Bass, Set of 6, (H98N Nickel)



CLASSIC GUITAR MACHINE HEADS (303 SERIES)

Traditional Grover quality and craftsmanship. Beautifully engraved plates. Three on a plate. Butterfly style, pearloid buttons, plastic coated string posts. Includes screws.
3+3, Set of 6, (303N Nickel), (303G Gold)



DELUXE CLASSIC MACHINE HEADS (306 SERIES)

Excellence in materials and craftsmanship are the hallmark features of these classic machine heads. The die cast base provides a rigid foundation for the gear and worm, assuring perfect alignment and mesh. The pearloid buttons are attached with a tension screw to provide the feel of your preference. A bearing over the worm shaft provides additional support and enhances the smooth performance. Includes wood screws.
3+3, Set of 6, (306N Nickel), (306G Gold)



PROFESSIONAL MANDOLIN MACHINE HEADS (309 SERIES)

These new mandolin machine heads feature a die cast base. The rigid base is ideal to insure correct gear and worm alignment as it aids in maintaining the centre lines of these critical parts. A wide bearing surface over the worm gives added support and enhances the smooth action on these machines. Screws and bushing provided.

Standard 4+4, for "A" style mandolins, (309N Nickel), (309G Gold)
Standard 4+4, for "F" style mandolins (309FN Nickel), (309FG Gold)

Bass and Pedal Steel



MINI BASS MACHINES (144 SERIES)

The Grover "MINI" is lightweight, compact and durable for modern electric basses. Gear ratio is 20 to 1. Housing is specially machined to achieve the precise tolerance that prevents slippage and allows fine tuning. Sealed gear box has permanent lubrication that makes the MINI friction-free for life. Individually hand-tested. Screws and bushings included.

2 Treble, 2 Bass, (144BC Black Chrome), (144C Chrome), (144G Gold)
4-in-line (144BC4 Black Chrome), (144C4 Chrome), (144G4 Gold)
Left hand models, (144BCL4 Black Chrome), (144CL4 Chrome), (144GL4 Gold)



VINTAGE BASS MACHINE HEADS (142 SERIES)

Precision and durability with classic styling make these bass machine heads ideal for manufacturing or upgrading instruments. The die cast housing is a sturdy foundation for maintaining centre lines of the worm and gear. A fixed bearing surface in the housing creates a smooth turning surface for easy tuning. The safety string post and "elephant ear" button provide utility and a vintage look. Available in 4-in-line or 2+2 configurations. Bushings and wood screws included.

Set of 4, (142C 2+2, Chrome), (142C4 4-in-line, Chrome)



TITAN ELECTRIC BASS MACHINES (145 SERIES)

SELF ALIGNING THRUST BEARINGS! Gear ratio is 20:1. Special butterfly button. Durable cast housing. End thrust bearings. Worm meshes perfectly with gear. Safety-type string with cutaway shoulders to provide slip-over. Two screws in housing apron provide greater holding power. May be used with ALL modern bass guitar headpieces. Individually hand tested. Screws and bushings included.

2 Treble, 2 bass, (145C Chrome), (145G Gold), (145BC Black Chrome)
4-in-line, (145C4 Chrome), (145G4 Gold), (145BC4 Black Chrome)
4-in-line, left-handed, (145CL4 Chrome)



PEDAL STEEL GUITAR MACHINES (210 SERIES)

This model is designed specifically for use with pedal steels. The shortened string post and bushing are designed for the slotted head of a pedal steel. It will house a headstock thickness varying from .235" (5.97mm) to .400" (10.16mm). The string post extends .900" (22.87mm) from the base of the housing. The housing has a mounting pin at the back, eliminating the need for a mounting screw. This also facilitates mounting on the cast headstocks used on pedal steel guitars.

Set of 10, (210C Chrome)

Banjo Machine Heads



**GEARED BANJO PEGS
(SET OF 5)**
Metal Buttons, (121C5 Chrome)
(121G5 Gold)



**GEARED BANJO PEGS
(SET OF 4)**
Round Pearloid Buttons, (123C Chrome)
PICTURED, (123G Gold)



**PERMA TENSION™
BANJO PEGS (SET OF 5)**
No slippage, no backlash, no looseness. Heavy knurled bushings with threaded extension, locks permanently into wood. Countersunk button screw regulates tension.
Metal buttons, (117N Nickel)



CHAMPION BANJO PEGS
Favourite, popular-priced patent peg for nearly three generations. Positive, non-slip action will last a lifetime. Non-breakable black buttons.
Black Buttons, Set of 5, (25B Nickel) PICTURED
Black Buttons, Set of 4, (75B Nickel)



BANJO GEARED 5th PEG
Pearloid Buttons, (162C Chrome)



**PERMA TENSION™ TENOR
BANJO PEGS (SET OF 4)**
Metal Buttons, (115N Nickel)



**PERMA TENSION™ BANJO
5th PEG**
Metal Button, (118N Nickel),
(118C Chrome) PICTURED



BANJO 5TH STRING PEG
A traditional style peg with a knurled brass insert and a nickel-plated pressure sleeve.
Ivory Button, (116N Nickel)



Violin, Ukulele, Pegs



**CHAMPION™ PEGS
(SET OF 4)**
Favourite, popular-priced patent peg for nearly three generations. Positive, non-slip action will last a lifetime. Non-breakable black buttons.
Black buttons for violin, (5B Nickel)
Black buttons for ukulele, (2B Nickel)



STA-TITE™ PEGS (SET OF 4)
The machined brass housing, string post and bushing provide for smooth, even turning and finish protection. The bushing inserts into the peg head for even distribution of pressure created by friction pegs.
(4B Nickel)



**TUNE-KRAFT™
COMPENSATING
BANJO BRIDGES**
Made of select maple with specially shaped compensating ebony top. Gives each string its proper scale. Players can change keys without having to adjust their tuning.
(76 1/2 5-string banjo, 1/2" high),
(77 5/8 5-string banjo, 5/8" high)



MINSTREL™ BANJO BRIDGES
Popular 3-legged model. Select maple with ebony strip.
(70 1/2 Tenor banjo, 1/2" high),
(71 5/8 Tenor banjo, 5/8" high),
(72 1/2 5-string banjo, 1/2" high),
(73 5/8 5-string banjo, 5/8" high)



**ACOUSTICRAFT™
BANJO BRIDGES**
Specially designed 3-legged bridges. Seasoned maple with ebony insert and individual ivoroid block.
(90 1/2 Tenor banjo, 1/2" high),
(91 5/8 Tenor banjo, 5/8" high)
(95 1/2 5-string banjo, 1/2" high),
(96 5/8 5-string banjo, 5/8" high)



LEADER™ BANJO BRIDGES
Made of select hard maple with ebony top. Specify height.
(30 1/2 Tenor banjo, 1/2" high),
(30 5/8 Tenor banjo, 5/8" high),
(30B 1/2 5-string banjo, 1/2" high),
(30B 5/8 5-string banjo, 5/8" high)



NON-TIP™ BANJO BRIDGES
Select hard maple. Grover® "Non-Tip™" centre support. Specify height when ordering.
(4 1/2 5-string banjo, 1/2"),
(4 5/8 5-string banjo, 5/8"),
(5 1/2 Tenor banjo, 1/2"),
(5 5/8 Tenor banjo, 5/8")



REST ASSURED, YOUR GUITAR'S SAFE WITH GROVER.

Grover Strap Locks

STRAP LOCKS

Straplocks? Don't use them? Well, let us tell you (from bitter experience) that they're officially brill, and can save you a load of tears after your pride and joy has dropped off your strap and bounced off the floor, with a big dent in the now-seriously cracked shiny lacquer... not good.

Grover Strap Locks feature the 'quick release' mechanism players want and need. This strong yet lightweight accessory provides security along with the ability to easily remove the strap for use on another instrument or storage.

(GP800C Chrome), (GP800G Gold), (GP800N Nickel), (GP800B Black)



Grover Strap Buttons

ARTIST STRAP BUTTONS

These buttons offer players the opportunity to attach their strap with style. They keep the players' strap locked without the hassles or expense of traditional strap locks. The two-piece screw on design let's the player change styles easily while the oversized die-cast buttons and custom-fitted o-rings safely secures the strap.

All hardware is provided and the installation process is simple. Replaces original strap button with no modification or damage to instrument.

Skull, (610G Gold). **Eagle**, (620C Chrome), (620G Gold).
Star, (630C Chrome), (630G Gold). **Iron Cross**, (640C Chrome), (640G Gold)



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