

RENNER[®]
USA Division of
Lloyd Meyer & Company

RENNER QUALITY

The firm Louis Renner was founded in Stuttgart, Germany in 1882. Today its headquarters and main factory are located in Gärtringen, just outside Stuttgart, with an additional state-of-the-art factory in Meuselwitz, near Leipzig. Renner manufactures complete grand and upright piano actions in addition to special piano parts, piano hammers, accessories, piano tools, and professional literature. They supply the primary piano action components to the world's leading piano makers and piano technicians in over 80 countries.

In 1988, Lloyd Meyer established Renner USA, a division of Lloyd Meyer & Company, to provide a stronger presence in North America and to create a U.S. based facility for the research and development of special piano action parts and tools specifically designed for vintage American pianos. These include original dimensioned piano action replacement parts for Baldwin, Chickering, Knabe, Mason & Hamlin, Steinway, and other fine American pianos. The company also provides original replacement parts for the great European piano makers, including Bechstein, Blüthner, Bösendorfer, Fazioli, August Förster, Grotrian Steinweg, Schimmel, Seiler, Wilh, Steinberg, Steingraeber & Söhne, as well as the better quality Asian piano producers. Particularly in demand, are the top of the line Premium Blue piano hammers that do not require the addition of lacquers or other artificial hardeners; and special tools that have been developed for fine regulating.



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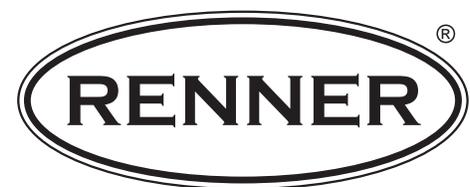


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Selecting the Correct Action Parts When Restoring a Vintage Piano

The key factor in selecting correct replacement parts is to insure that the original action dimensions and relationships won't change upon installation. To accomplish this, Renner maintains a century old manufacturing database with master action designs from which it can produce genuine Renner action parts with the same "original dimensions" as were used in the original piano manufacture. There is only one set of relationships through which the mechanism will operate properly, and you will find those relationships carefully engineered and built into every Renner part. The objective, simply stated, is to protect the authentic design of the piano and to carefully restore it to the original intent of the piano maker.

The drawings of our action parts are to exact scale and can be used for direct comparison, making it easy to determine the correct dimensions and dimensional relationships to perfectly suit your particular action. For greater precision in determining the correct replacement action part, we highly recommend using the Renner USA Sample Parts Kit (page 24). This special Kit is available to qualified piano technicians and allows the actual testing of factory engineered sample action parts in the piano.



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Our Action Parts Kit Can Make Finding the Right Part a Breeze

The Renner USA Sample Parts Kit can help solve the common problem of identifying and sourcing the correct replacement parts for most vintage pianos. Containing an assortment of over 40 original dimension wippens, shanks and flanges, hammers, damper felt samples, and other internal piano parts, technicians can test fit actual parts inside the piano to determine the best fit. This is critically important in order to maintain the original design and excellence of the instrument, particularly with vintage Steinway and other quality pianos, due to the way they were handcrafted at that time.

Original dimension Renner action parts for Steinway grand pianos include three different executions of shanks & flanges and two different wippens, to accommodate the different configurations over the years including current. There are also different executions of wippens and shanks & flanges for Baldwin, Mason & Hamlin, Boesendorfer, Bechstein, and others, depending on the model and year manufactured. For pianos where original dimensioned parts are no longer available, Renner USA offers parts that can be custom fitted to many particular pianos. For example, the Renner Universal Wippen offers multiple heel size options that can be configured to produce 15 different executions that fit most vintage American and European pianos, as well as many Asian made pianos.

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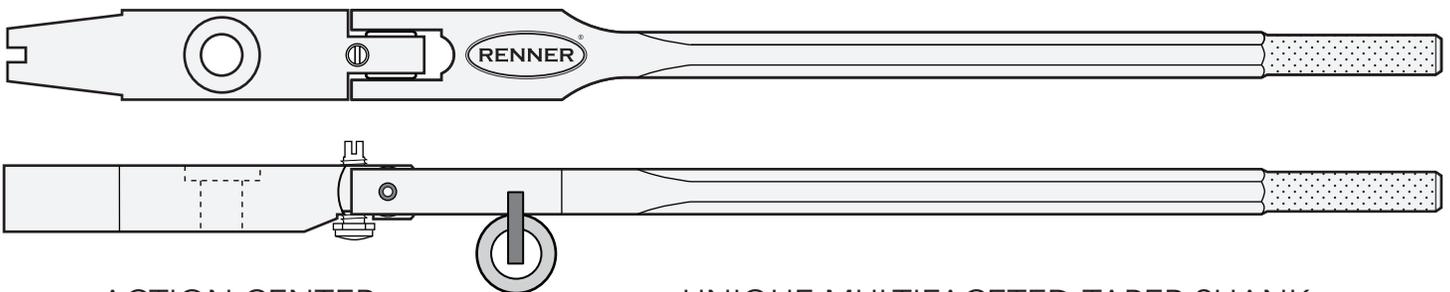
The Renner USA Parts Kit is available to professional piano technicians FREE of charge with the first purchase of a complete set of action parts (wippens, shanks & flanges, and hammerheads. Or, the kit may be purchased in advance, and the purchase price would be credited back with the first complete order.



Renner shanks and flanges are “dimensionally correct” ensuring that the original action dimensions and relationships are maintained when the part is installed. Recent entries into our business have borrowed this term to describe dimensions, that are not authentic, and will fundamentally change the original design. Extreme examples include moving the hammer shank knuckle to a distance of 18mm from the center pin in order to reduce action weight at the front of the key. Reducing the leverage ratio at the hammer shank will certainly result in making the key easier to press down, as piano makers have known for 300 years. Doing so, however will have detrimental consequences in other areas of the mechanism including:

- A reduced amount of available hammer blow distance with the same touch depth.
- Greater touch depth with the same hammer blow distance.
- Slower acceleration of the hammer towards the string, resulting in lower contact velocity.
- Greater hammer weight required to reach equivalent ability to displace the struck string.

One of the little known secrets of every Renner action part is the use of a special wood called Weissbuche - Hornbeam in English - which is naturally air-dried and aged over several years. The use of only the finest quality materials, including the famous Renner bushing cloth, are among the many reasons why genuine Renner parts are preferred by the world’s finest quality piano makers and rebuilders.



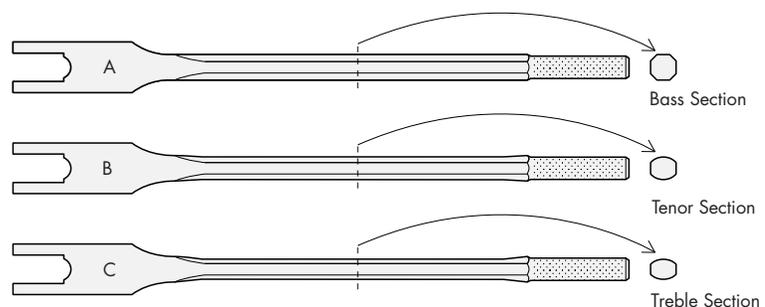
ACTION CENTER

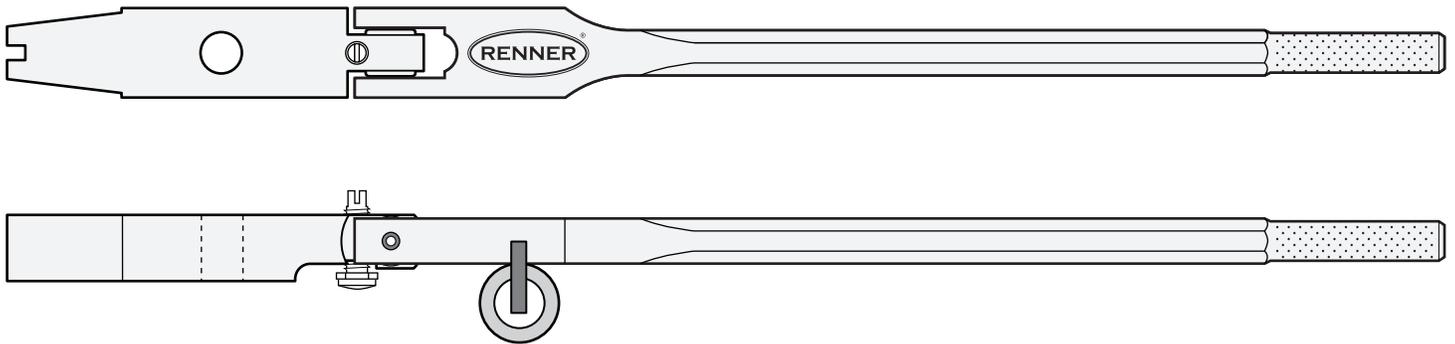
Exclusive Renner-designed pre-glued and graphited flange bushing cloth for stronger and more uniform action centers.

UNIQUE MULTIFACETED TAPER SHANK

Designed by Renner for increased strength and superior energy transmission of the hammerhead

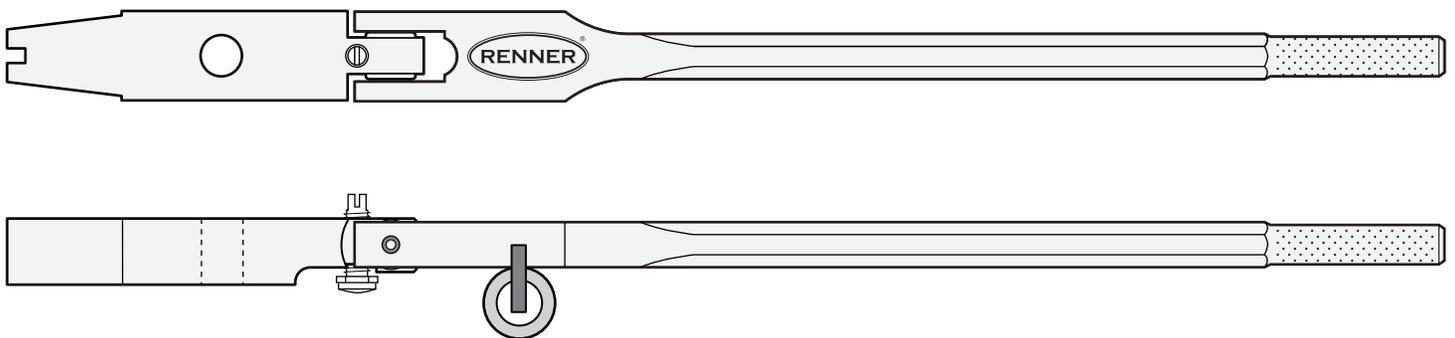
Each set of Renner hammershanks include three levels of tapering in order to reduce the touchweight evenly from bass to treble.





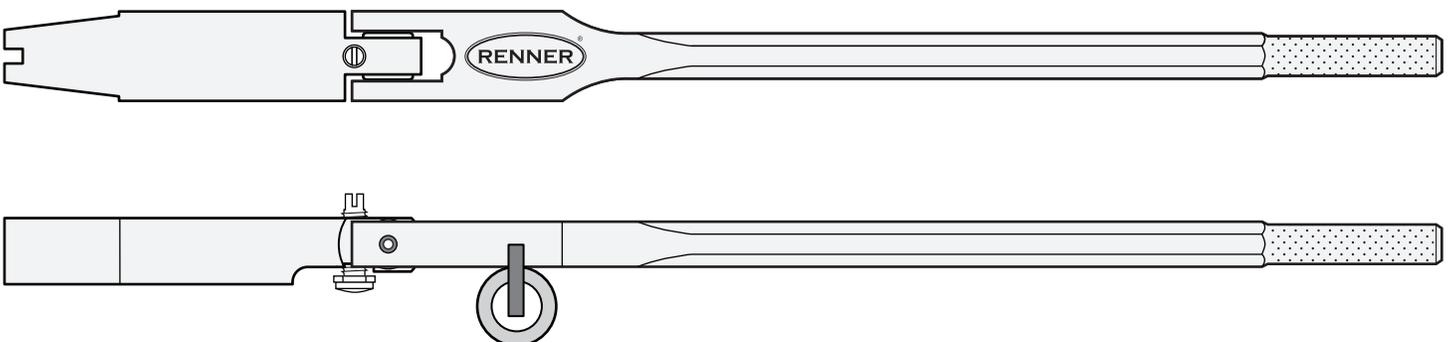
#913 001 Standard Renner

Note: Fits the standard Renner grand action found in many European pianos including Bechstein, Bösendorfer, Baldwin SD & SF and the older Yamaha.



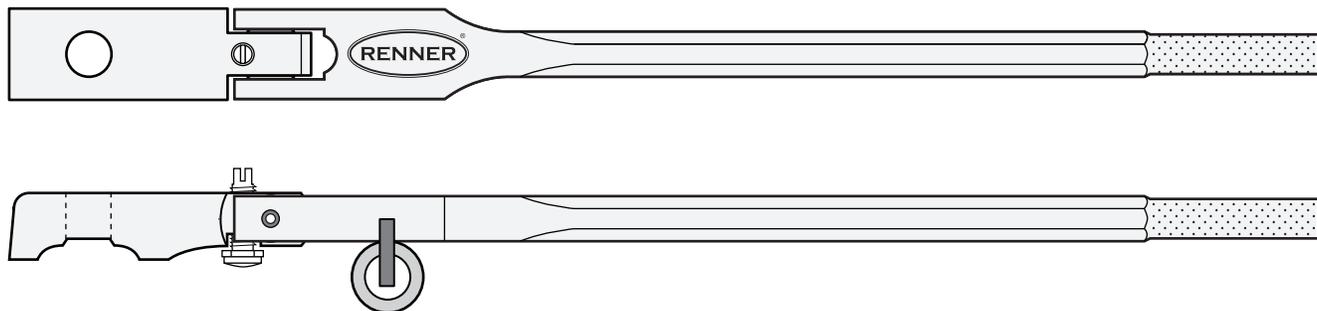
#913 002 Renner Small Knuckle

Note: Same as #913 001 except with smaller knuckle. This execution was standard on most Bechstein and some other European pianos.



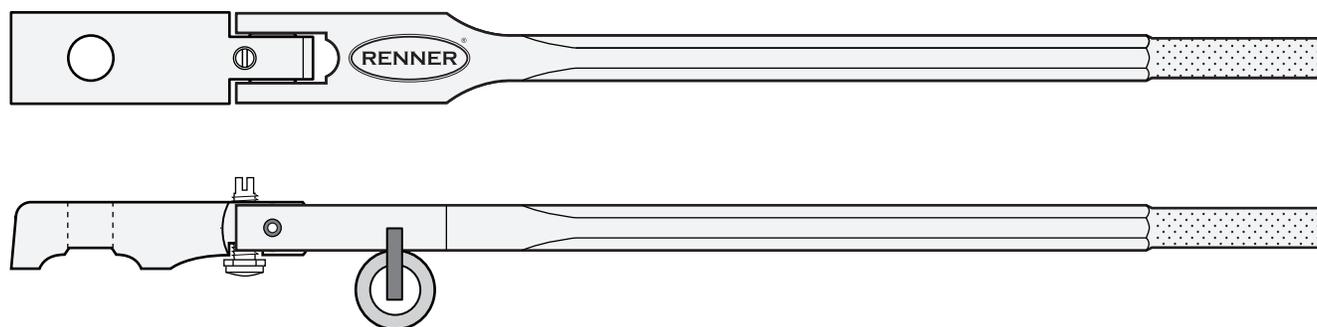
#913 023 Renner Universal

Note: Same as #913 001 except without screw hole. Can be adapted to many applications where a direct replacement is not available.



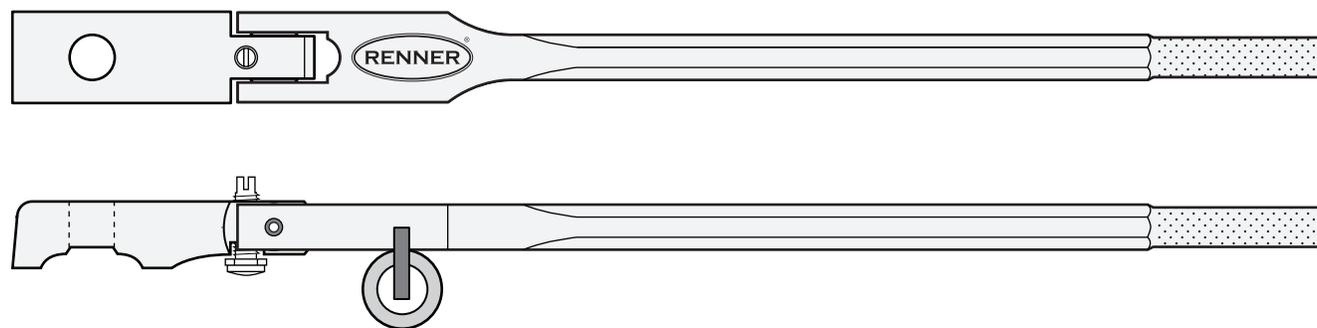
#913 021 Original Style

Note: Fits Steinway. These have the original dimensions that used a "Smaller Knuckle—Higher Ratio" combination.



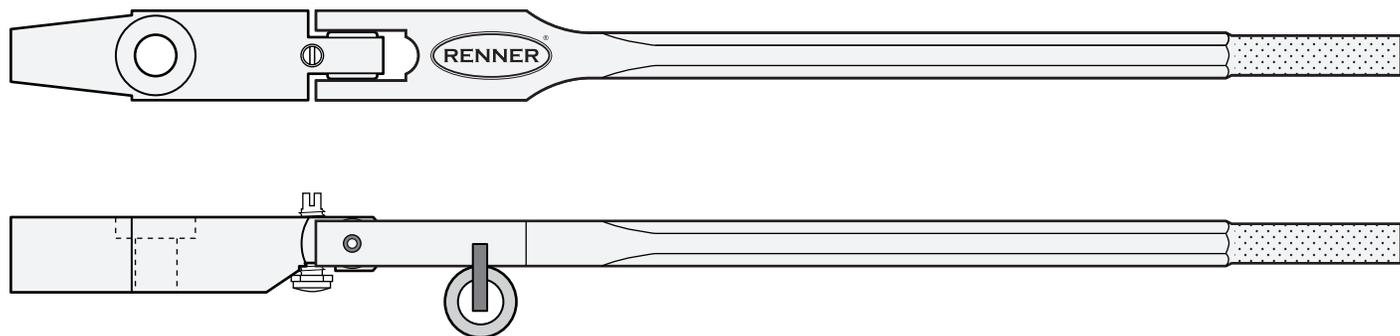
#913 029 Modified Style

Note: Fits Steinway. A number of vintage, turn of the century pianos used a "larger knuckle - lower ratio" combination. This shank will also most often fit pianos from the teflon era.



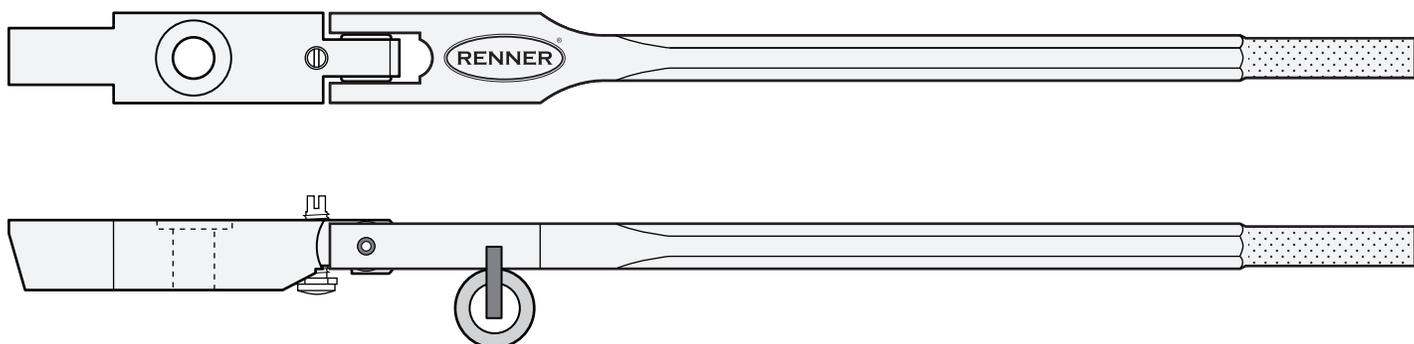
#913 031 Hamburg Style

Note: Fits the post 1970 Hamburg Steinway, some 1980's B & D NY Steinway models and current production models



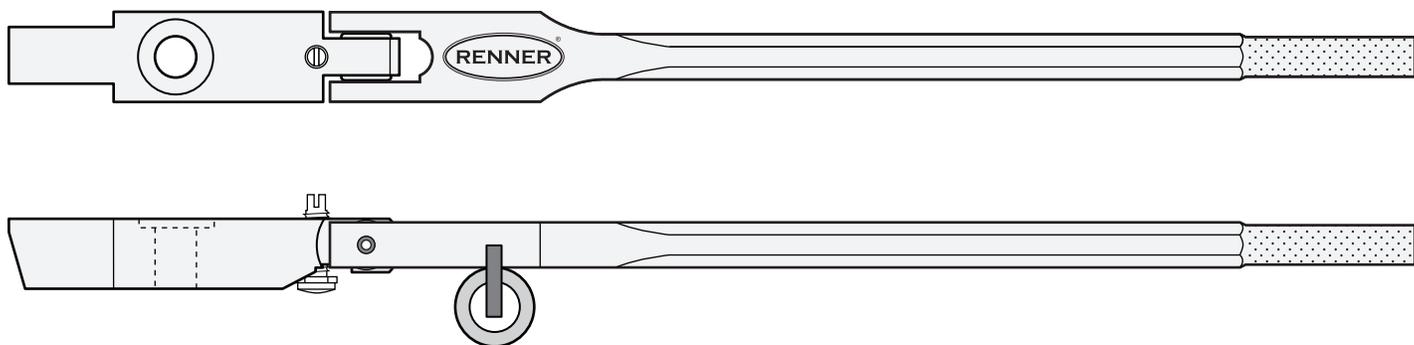
#913 009 Mason & Hamlin

Note: Fits vintage Mason & Hamlin as well as a variety of other piano makes that used Wessel, Nickel and Gross actions.



#913 019 Old Baldwin Pre -1932

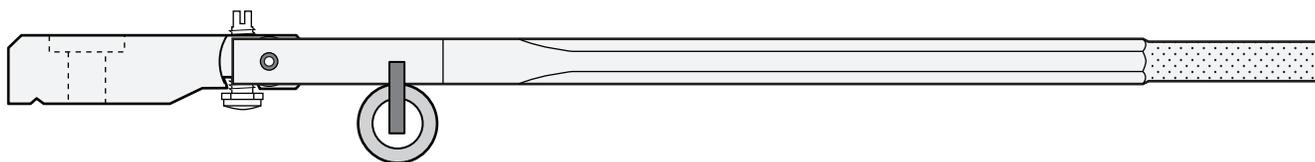
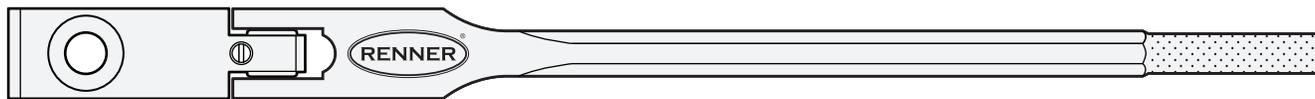
Note: For Baldwin models that were made before 1932.



#913 025 New Baldwin Post -1932

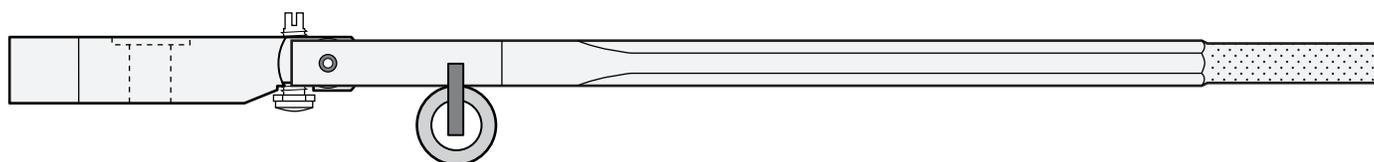
Note: Same as #913 019 except the screw hole is further from the center pin. For pianos built after 1932 that did not use a Renner action.

SHANKS & FLANGES



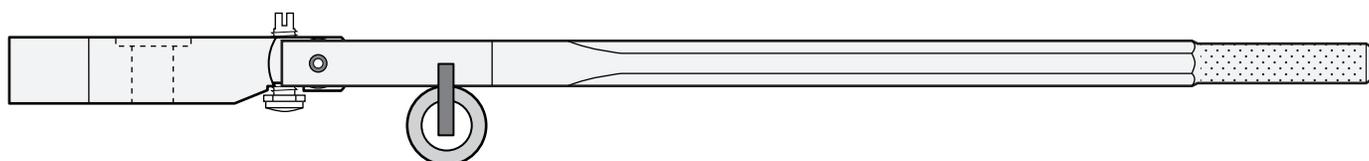
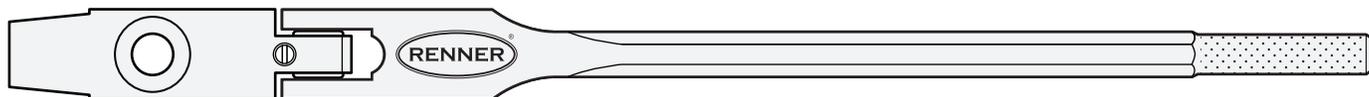
#913 013 Yamaha

Note: Fits Yamaha pianos.



#913 011 Pratt-Read

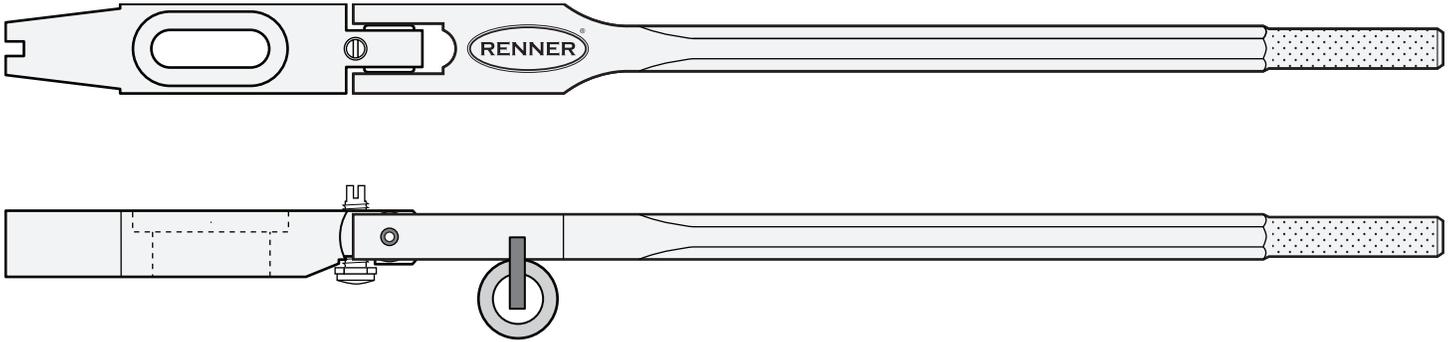
Note: Fits Pratt—Read standard actions.



#913 027 Pratt-Read Short

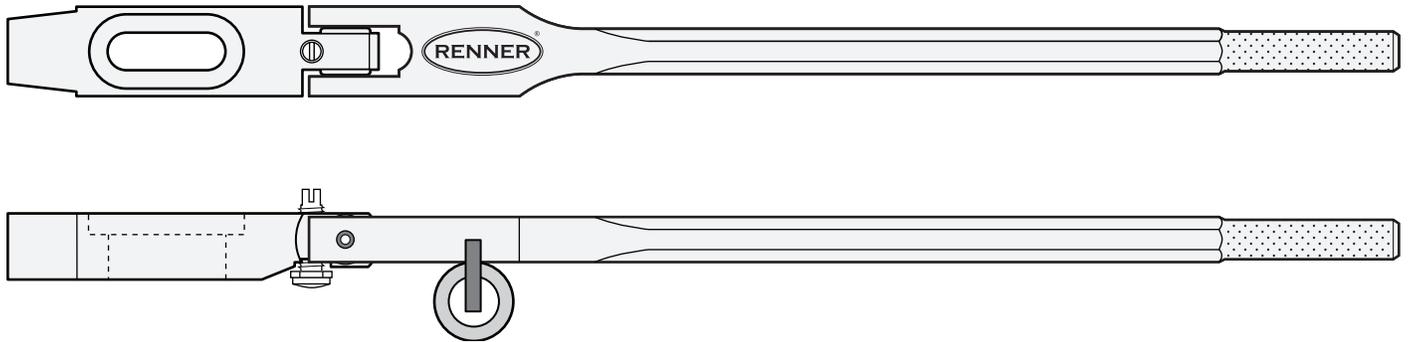
Note: Fits some Chickering and other Aeolian models.

SHANKS & FLANGES



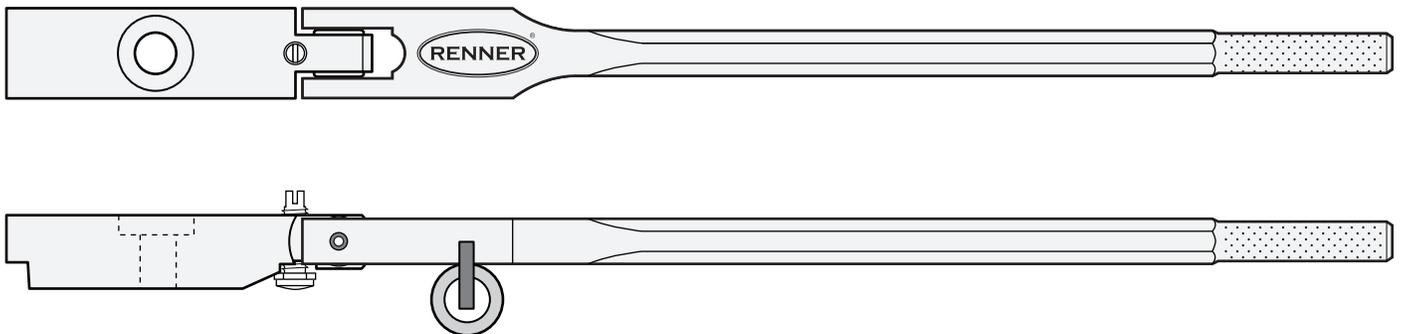
#913 005 Adjustable

Note: For applications requiring the long flange where models 913 001 and 913 023 are not suitable.



#913 007 Adjustable

Note: Fits some Mason & Hamlin models and other applications where model 913 009 is not suitable.



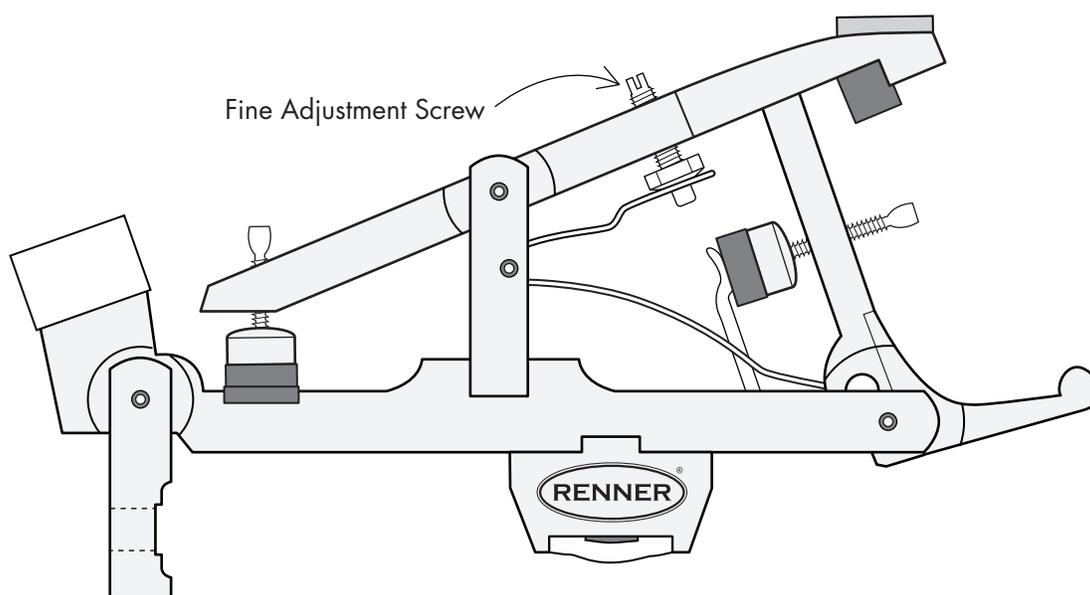
#913 017 Knabe

Note: Fits most Knabes.

Renner wippens feature precision machined regulating screws and graduated spring tension for optimum regulation. On fine quality pianos this amazing action mechanism, perfected over a period of 300 years, is made from all natural living materials like fine woods, felt, and leather which depend on small action centers to precisely control their motion. These specific tolerances must also move naturally with the environment. Renner action centers are made with exclusive Renner-designed pre-glued and graphited bushing cloth and are designed to be activated millions of times over the lifetime of a piano.

FINE ADJUSTMENT SCREW

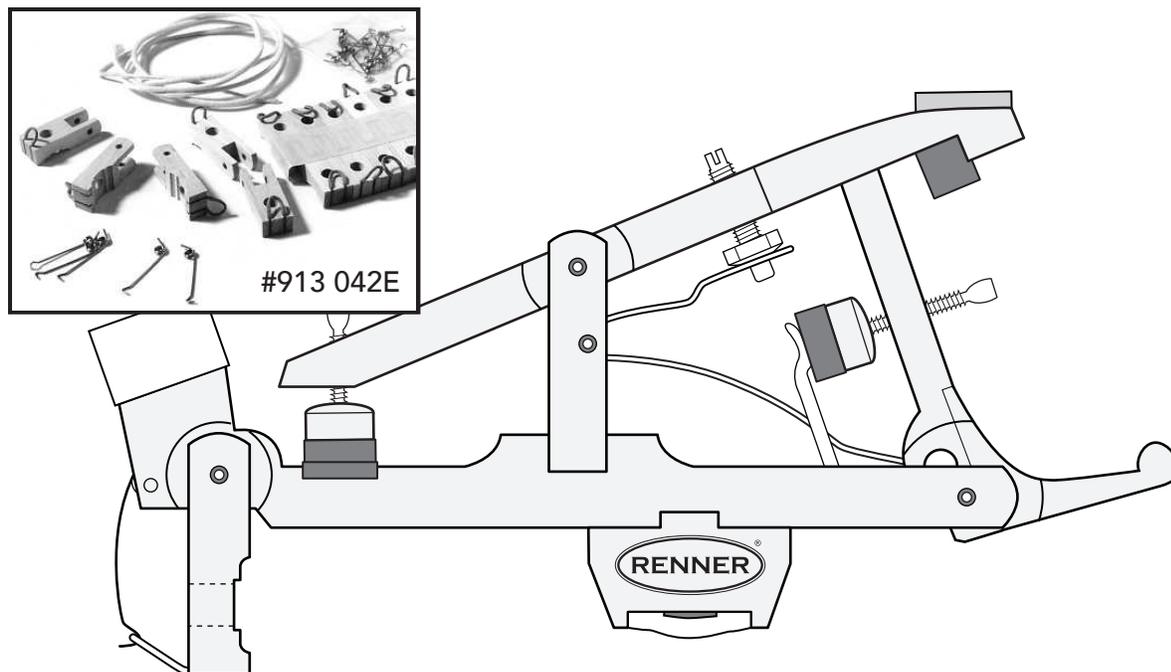
Designed for superior fine adjustments after initial rough regulations. Also prevents butterfly spring from wearing a noisy groove in the repetition lever



The HIGH DEFINITION FLANGE provides a more accurate flange seating on the many different rails produced over the years for both vintage & modern pianos, creating stability in the action and a more accurate transmission of power from key to string.

One of the little known secrets of every Renner action part is the use of a special wood called Weissbuche - Hornbeam in English - which is naturally air-dried and aged over several years.

The use of only the finest quality materials, including the famous Renner bushing cloth, are among the many reasons why genuine Renner parts are preferred by the world's finest quality piano makers and rebuilders.

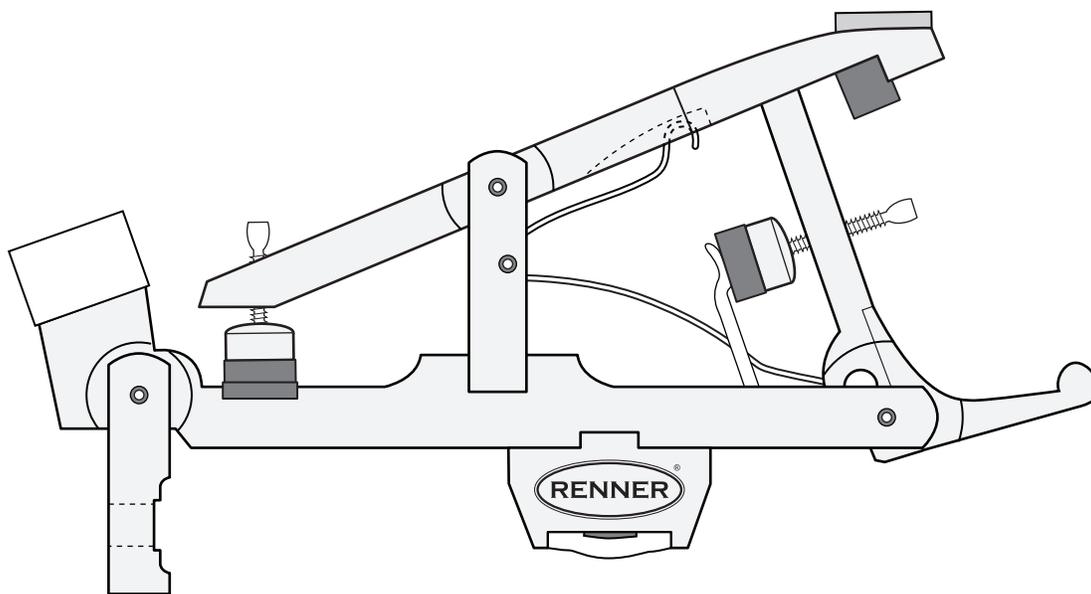


#913 042 Turbo Wippen

Note: Fits Steinway. The same as #913 041 but with wippen assist springs. Will compensate for pianos that would require excessive leading to achieve proper touchweight

#913 042E Turbo Wip Extender Kit

Our Turbo wippens include flange assist springs to note 72. This kit was created to allow the technician to go to note 88.



#913 040 Straight Heel

Note: Fits Steinway. Same as #913 041 but without fine adjustment screw

Selecting Replacement Hammers

Louis Renner & Company produces the hammerheads for the world's finest piano makers, as they have done for over 130 years, and have grown to become the largest, independent, producer of hammerheads in the world. The German Steinway, Bösendorfer, Fazioli, Schimmel, Bechstein, Blüthner, Estonia, Förster, and Steingraber are among the world's premium pianos that use Renner hammers which are produced to each manufacturer's specifications. Our selection of hammers for the North & South American markets include the following premium product lines which incorporate the original designs developed early in the 20th century for vintage Steinway and other quality pianos and the latest advances in hammer making technology. These superior hammerheads are produced utilizing the most advanced technology and state-of-the-art machinery in the industry, combined with the finest German hand-craftsmanship.

The grand hammers are made in 3 basic weights, with an additional weight in the Hamburg Collection, and 2 boring sizes which will fit 80% of the pianos you are likely to encounter. 3 universal sizes are also available, which can be custom bored, shaped, and tailed, for the remaining 20% of the grand pianos. The upright hammers are available in two basic sizes which will fit nearly every upright piano.

Renner Premium Blue

The original Premium Blue hammer specially designed for vintage Steinway and other quality pianos.

Renner Premium "Blue Points"

Latest refinement of the classic Premium Blue line, incorporating Weickert Special felt, also designed for vintage Steinway and other quality pianos. Higher tension felt. Less voicing required.

Hamburg Collection

Designed for Hamburg Steinway grand pianos produced after 1970. Wider width and heavier weight.

Special Features of the Renner Blue Point and Premium Blue Hammerheads

Hammer Felt

The special hammer felt used in the Renner hammer is produced by the Würzen Felt Company, in the former East Germany, which supplied vintage Steinway and other quality pianos their special hammer felt for over 100 years. The felt became unavailable for several decades following World War II, during the Russian occupation, and became available again with the reunification of Germany. It continues to be the finest hammer felt produced in the world, resulting in the widest possible harmonic and dynamic tonal range with a minimum of voicing required.

Hammer Molding

The molding used in the Renner Premium Blue and Blue Point hammers is a special species of Walnut wood, grown in Germany. It is carefully selected for its uniform, lighter weight, and responsiveness. It is aged naturally, prior to final conditioning, to assure long term stability and performance in different climatic environments.

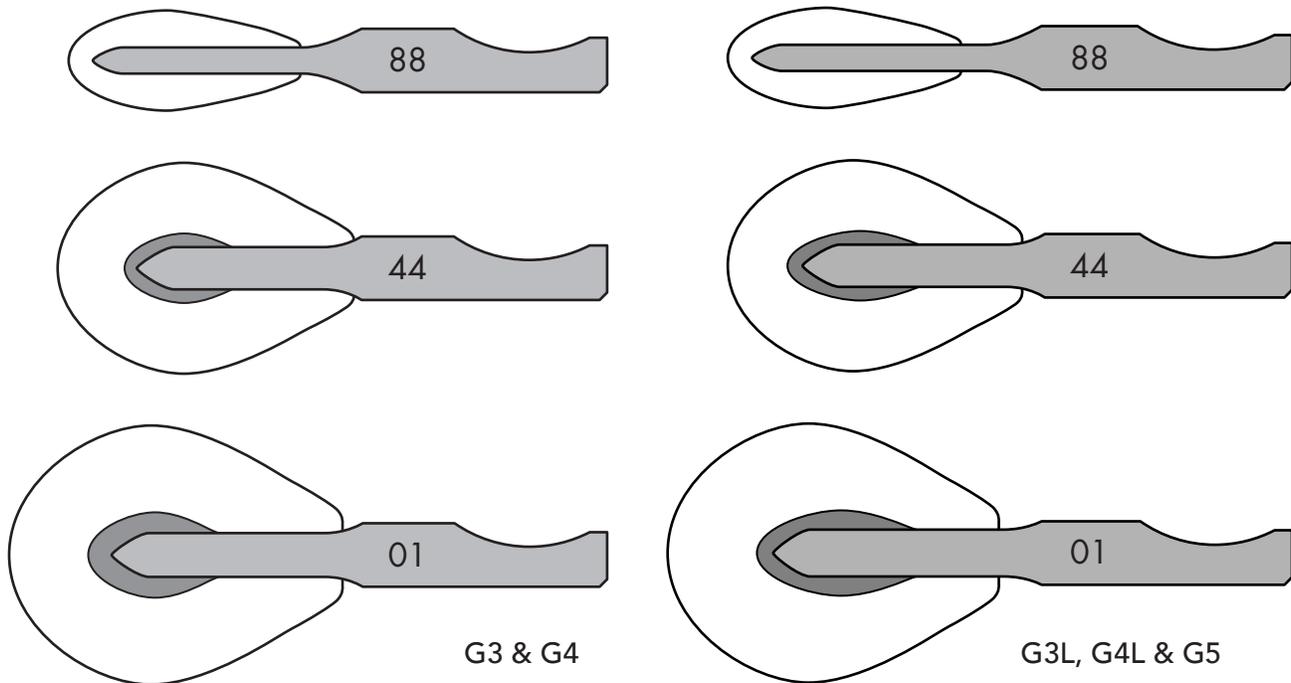
Renner Compression Clasp

Each of our hammerheads incorporates the exclusive Renner T-Clasp™ to maintain the desired felt tension and even weight distribution within each hammer. This unique clasp is made from a proprietary, surface-coated, hardened steel, which is used to lock the felt to the base of the molding without damaging individual felt fibers. To assure uniformity, each clasp is optically sorted and matched by computer to assure the correct dimensions and alignment of the stems. The clasps are then inserted electronically into each hammerhead, one-at-a-time, applying equal pressure to both sides of the hammerhead, to assure uniform tension and perfect centering and alignment of each clasp. Each hammerhead is then hand inspected individually to assure absolute perfection.

Hammer Presses

Our unique hammerhead presses allow for the perfect centering of the outer and under felt on the hammer molding, with special sensors controlling the amount of pressure and temperature applied to each individual hammer across the scale. This protects the structure and integrity of the felt during the pressing process, and results in the optimum tension and responsiveness of each individual hammer.

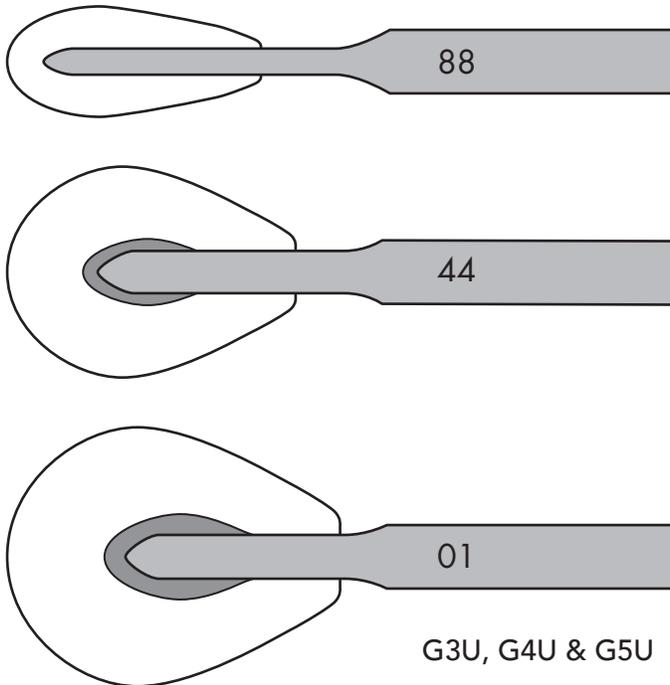
Grand Hammers



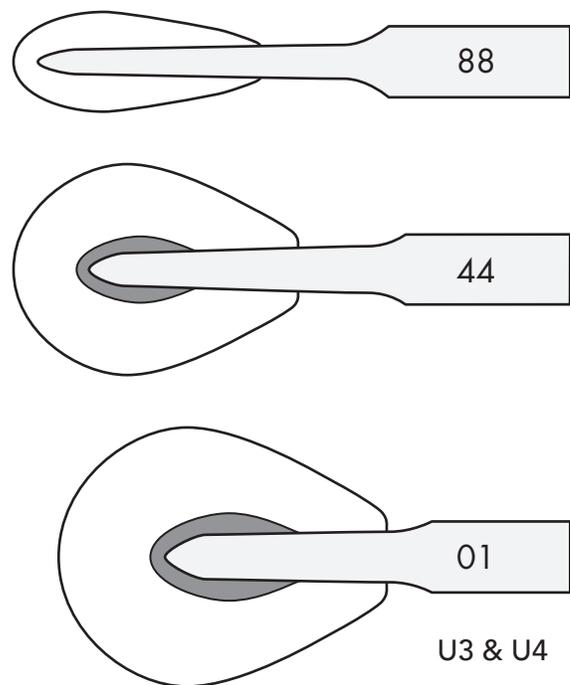
Premium Blue (PB) & Premium "Blue Point" (PBP) Grand Hammer Specifications													
Model	Molding Material	Size (lbs.)	# Hammers		Overall Length		Hammer Bore Range		Width				
			Bass	Treble	Bass	Treble	Bass	Treble					
G3-PB G3-PBP	Walnut	Gr.3 14 lb.	32	64	3 1/8"	2 13/16"	2-2 1/4"	1 11/16- 1 15/16"	27/64"				
G4-PB G4-PBP	Walnut	Gr.4 16 lb.	26	70	79.5mm	71.5mm	51-57mm	43-49mm	10.9mm				
G3L-PB G3L-PBP	Walnut	Gr.3 14 lb.	32	64	3 1/4"	2 15/16"	2 1/8- 2 3/8"	1 13/16- 2 1/16"	27/64"				
G4L-PB G4L-PBP	Walnut	Gr.4 16 lb.	26	70						83mm	75mm	54-60mm	46-52mm
G5-PB G5-PBP	Walnut	Gr.5 18 lb.	26	70									

Renner USA offers a wide array of custom hammer technical services which include: custom hammerhead boring, pre-filing and pre-voicing the hammers, and hanging the hammers to the original factory specifications and precision.

Grand Hammers



Upright Hammers



Premium Blue (PB) & Premium "Blue Point" (PBP) Grand Hammer Universal Molding Specifications

Model	Molding Material	Size (lbs.)	# Hammers		Overall Length		Hammer Bore Range		Width	
			Bass	Treble	Bass	Treble	Bass	Treble	Bass	Treble
G3U-PB PB "Lites"	Walnut	Gr.3 14 lb.	96		3 5/8" 92mm		1 11/16- 2 5/8" 43-67mm	27/64" 10.9mm		
G4U-PB G4U-PBP	Walnut	Gr.4 16 lb.								
G5U-PB "Big Blues"	Walnut	Gr.5 18 lb.						29/64" 11.5mm		

Premium Blue Upright Hammer Specifications

U3-PB	Hornbeam	Gr.3 14 lb.	32	64	2 11/16" 74mm	2 15/16" 74mm	2 1/8- 2 3/8" 54-60mm	2 3/8- 2 5/8" 60-66mm	3/8" 9.5mm	13/32" 10.4mm
U4-PB	Hornbeam	Gr.4 16 lb.							13/32" 10.4mm	13/32" 10.4mm

Renner USA now offers comprehensive hammer services at our Arizona facility. All Renner hammers can be custom bored to your specifications with the hammer tails properly radiused. To improve side clearance and to reduce weight Renner USA can precisely taper each hammer. This taper, extending the whole length of the hammer from the crown to the tail, recreates the configuration found on fine American grands from the classic era. For the ultimate in "out of the box" convenience your hammers can also be pre-filed and pre-voiced.

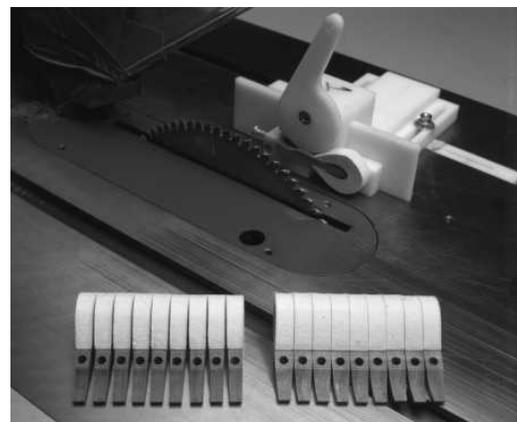


Renner USA will hang any of our grand hammer sets on any of our grand shanks. Our hammer hanging services are available to technicians in two levels of precision. Factory Level Placement: the hammers are hung to a uniform and fixed distance on the shank. This is the procedure used by most factories and is adequate for many situations. Custom Level Placement: If you wish to preserve the original placement of the hammers, we will duplicate your original samples to determine the original strike point. Our custom level placement can be ordered to achieve this higher standard of accuracy.



OPTIONAL SERVICES:

- Pre-Voicing
- Pre-Filing
- Full Side Tapering



New Baldassin “3-in-1” Underlever System by Renner USA

The New Baldassin “3-in-1” Underlever System by Renner USA maintains the design of the original Renner USA Universal Underlever System, with the flexibility of adding capstans, either in the underlever or the tray, if desired.

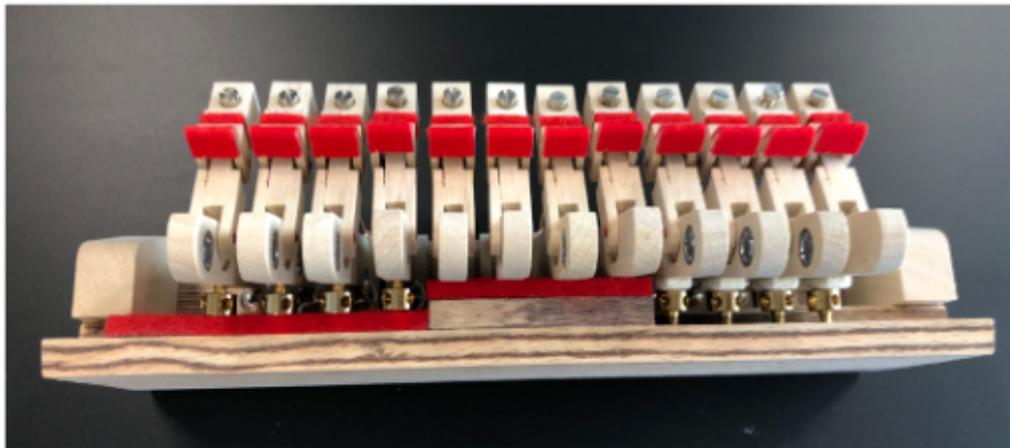
This system allows the damper action to be custom tailored to fit the many different grand piano scales produced over the past 150 years.

The kit includes the underlever tray, the tray ending blocks, pivot pins, a complete set of underlevers (pre-drilled for optional capstans), a complete set of capstans, individually cut action cloth pieces (used with capstan in tray installations), flange screws, the flange keeper wire, tray cushion felt, stop rail cushion felt, damper lever assist springs, and a roll of mylar tape for creating the drilling scale.

The Baldassin “3-in-1” Underlever System can be used to replace:

- Damper actions that are damaged or worn out.
- Damper actions without sockets in the top posts.
- Damper actions with fixed sostenuto tabs.
- Damper actions with "short arm" underlevers.

Baldassin “3-in-1” Underlever System



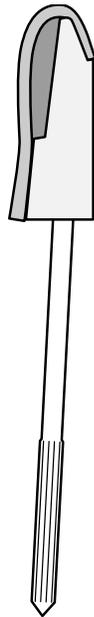
**Capstans in the
Underlevers**

No Capstans

**Capstans in the
Tray**

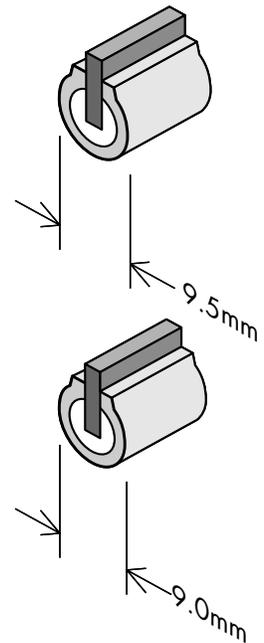
Back Checks with Wires

#706B



Renner Replacement Knuckles

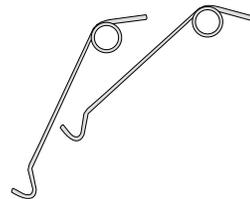
Two sizes available:
 large - 9.5mm diameter
 small - 9.0mm diameter



Wippen Assist Springs

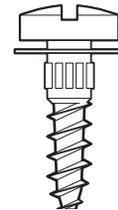
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Set in three different thicknesses which go to note 72.



Renner Flange Screws

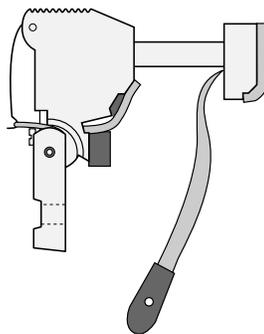
#621A



Upright Hammer Butt

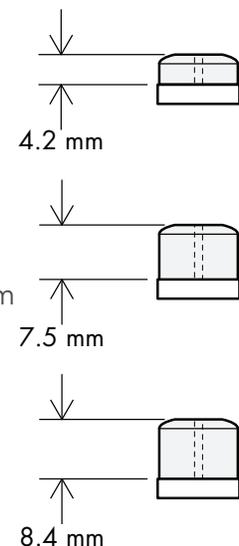
#481 Pratt-Read Style

Now with Renner quality, will fit most of the quality upright pianos produced in North America during the past 100 years.



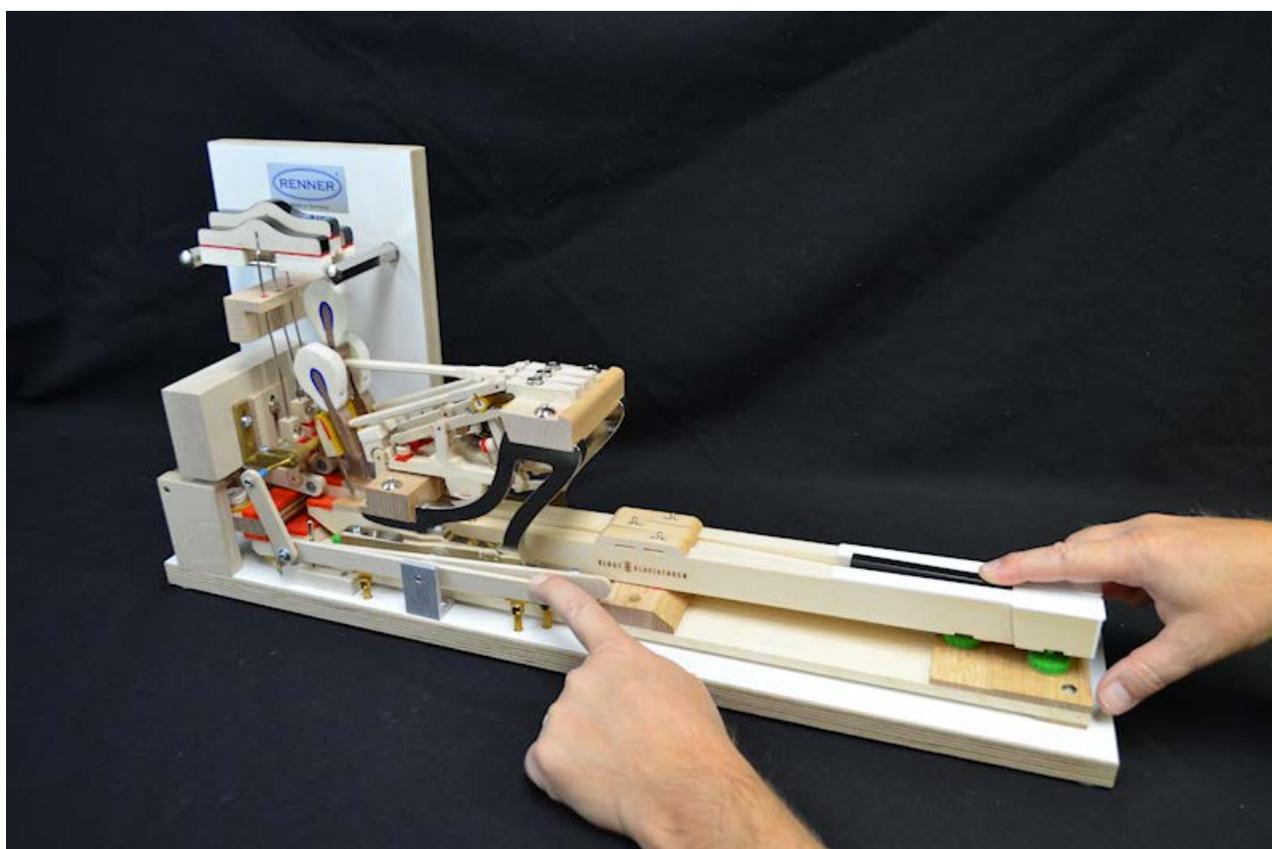
Let Off Buttons

LOB 4.2 Small Size 4.2mm
 LOB 7.5 Medium Size 7.5mm
 LOB 8.4 Large Size 8.4mm



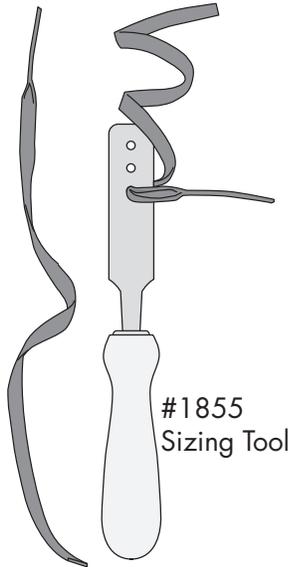
Renner Action Model

This 3-note grand piano action model is manufactured by the Louis Renner company exclusively for the Piano Technician's Guild, and is the official testing model used in the examination process to achieve the classification of Registered Piano Technician. It features Genuine Renner action parts, Premium Blue Point hammerheads, and includes working sustain and sostenuto levers. This model is a useful resource for grand action regulation training, and as a working public display model to demonstrate the intricate mechanisms and functioning of a grand piano action. For questions or to purchase, please visit www.ptg.org.



Flange and Key Bushing Cloth

Superior flange and key bushing cloths available in strips, squares and large 30x120cm pieces.



#1855
Sizing Tool

Flange Bushing Strips

20cm long with pre-formed (shoelace) ends, pre-glued and graphited.

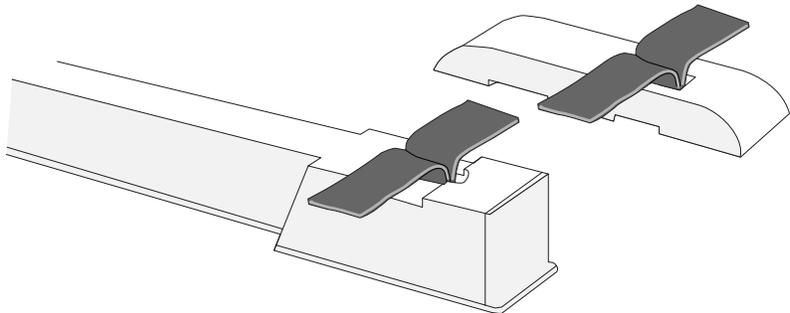
#1049

Renner supplies special pre-glued and graphited flange bushing cloth strips that are exceptionally easy to use. These strips have pre-formed "shoelace" ends for easy insertion into the flange holes. A water activated glue coating on the outside surface eliminates the need to apply any other adhesive, and the light graphite application on the inside surface provides quiet, trouble free operation. Use with sizing tool #1855

Bushing Cloth Strips For Spurlock System

9mm wide x 100cm long Strips

- #1050S 1.00mm thick
- #1051S 1.20mm thick
- #1052S 1.35mm thick
- #1048S 1.50mm thick



Bushing Cloth Squares

25x25cm

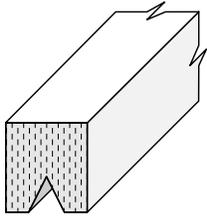
- #1050B 1.00mm thick
- #1051B 1.20mm thick
- #1052B 1.35mm thick
- #1048B 1.50mm thick

Bushing Cloth - Large Pieces

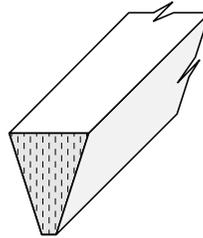
30x122cm

- #1050C 1.00mm thick
- #1051C 1.20mm thick
- #1052C 1.35mm thick
- #1048C 1.50mm thick

Damper Felt Strips

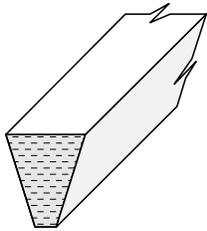


Mono-chord
#850136
Width 10mm
Height 11mm



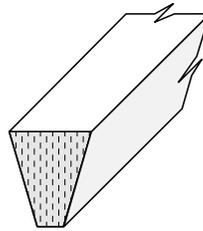
Bi-chord
#850132
Width 9mm
Height 11.5mm

Narrow point for
lowest bi-chords



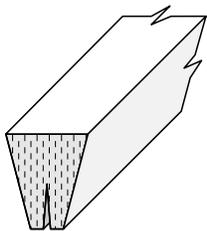
Bi-chord
#850140
Width 9mm
Height 10.5mm

Medium point for
remaining bi-chords



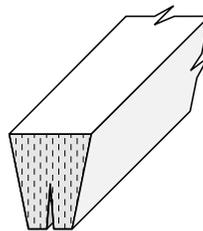
Bi-chord
#850138
Width 9.5mm
Height 11mm

Wide point for
bi-chords on
tenor bridge



Tri--chord
#850139
Width 9.5mm
Height 11mm

Narrow point for
wound tri-chords



Tri--chord
#850143
Width 9.5mm
Height 11mm

Wide point for plain
wire tri-chords

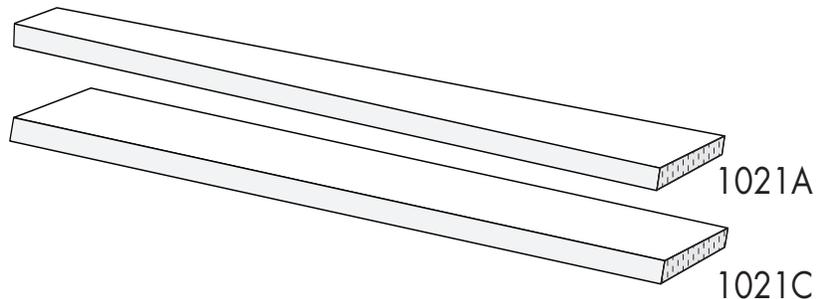
Flat Damper Strips

#1021A

Standard tapered
 5cm - 3cm x 49cm
 10.5mm thick

#1021C

No taper thin execution
 4cm x 40cm
 8.0mm thick



Pre-Cut Damper Sets

Renner quality red-felt backed. Pre-cut dampers to fit various scale designs.

#1033 S

Bass: 10 notes single, 18 notes double
 Treble: 4 notes double, 9 notes tri-chord,
 10 notes combination, 20 notes flats

#1033 M

Bass: 10 notes single, 18 notes double
 Treble: 3 notes double, 9 notes tri-chord,
 10 notes combination, 20 notes flats

#1033 L-O

Bass: 10 notes single, 18 notes double
 Treble: 13 notes tri-chord, 10 notes
 combination, 20 notes flats

#1033 A

Bass: 8 notes single, 14 notes double
 Treble: 5 notes double, 8 notes tri-chord,
 10 notes combination, 28 notes flats

#1033 B

Bass: 8 notes single, 14 notes double
 Treble: 18 notes tri-chord, 8 notes
 combination, 25 notes flats



#1033 C

Bass: 8 notes single, 14 notes double
 Treble: 18 notes tri-chord, 13 notes
 combination, 25 notes flats

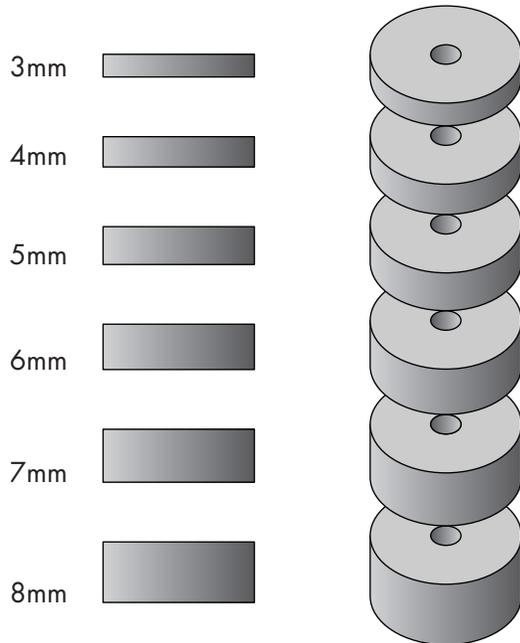
#1033 D

Bass: 8 notes single, 7 notes double, 7
 notes tri-chord
 Treble: 32 tri-chord, combination 13+13,
 Flats 50

#1033 Generic set

15 notes single, 15 notes double,
 42 notes flat tapered,
 22.5 cm tri-chord strip

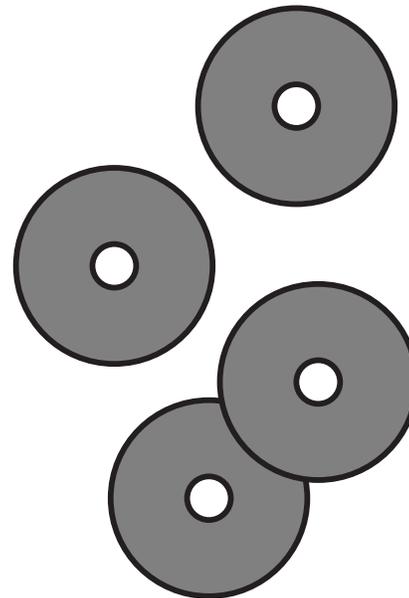
Punchings and Leathers



Front Rail Punchings

#1158

Superior quality felt front rail punchings, available in six different sizes.



Balance Rail Punchings

#1157

Available in one execution our very popular balance rail punching, red felt.

Key Bushing and Backcheck Leathers

Backcheck Leather

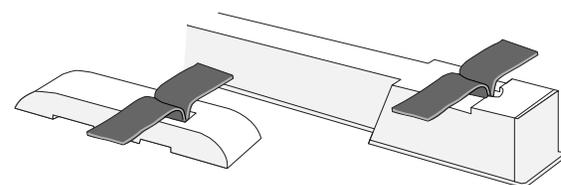
Wider width will fit the older longer style backchecks.
 Narrow width will fit standard backchecks.

#1105W

6.2cm x 90cm

#1105N

4.4cm x 90cm



Key Bushing Leather

Available in two thicknesses:

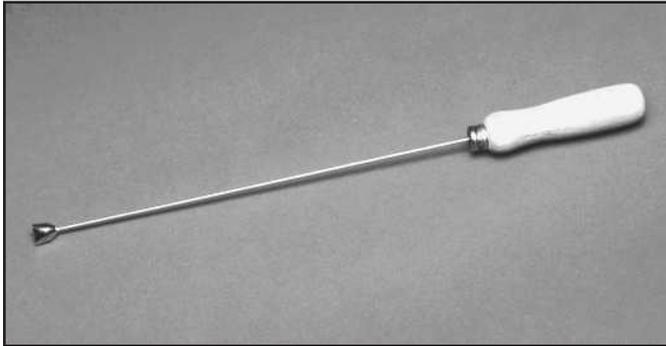
#1108A 1.00mm thick

90cm x 3cm

#1109A 1.20mm thick

90cm x 3cm

Regulating



Regulating Tool

#1520

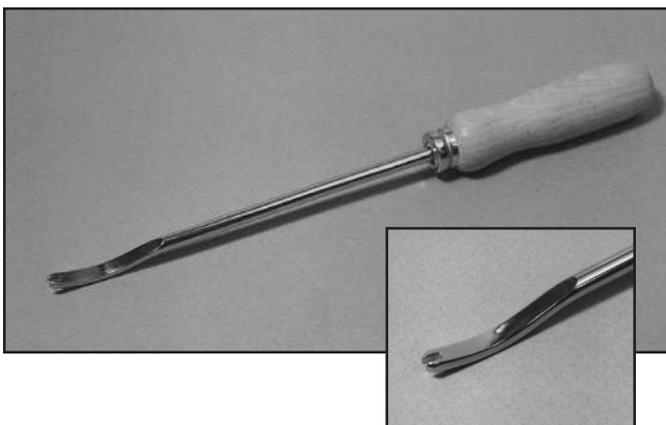
This tool is used to regulate grand jack alignment and repetition lever height.



Flange Spacing Tool

#1527

This flange spacing tool works especially well on vertical actions.

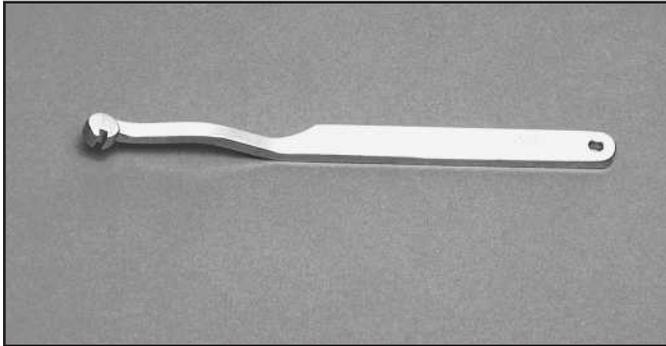


Grand Damper Regulating Tool

#1533

This tool is used to regulate the side-to-side spacing of damper heads.

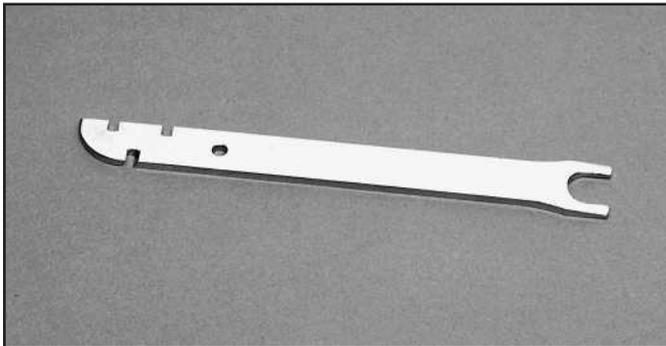
Regulating



Wire Bender

#1555

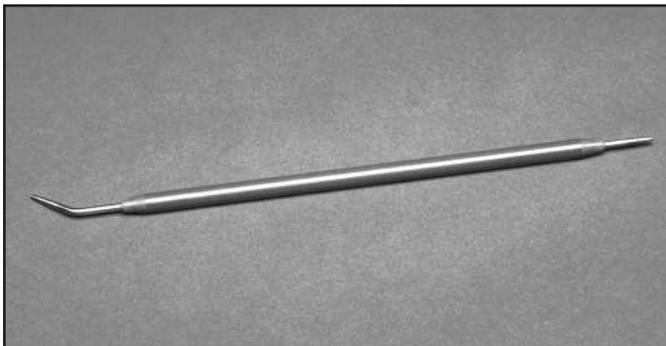
Used for precision bending of wires.



Multi Purpose
Upright Regulating Tool

#1558

Direct from the Renner factory, this tool handles a variety of intricate adjustments.

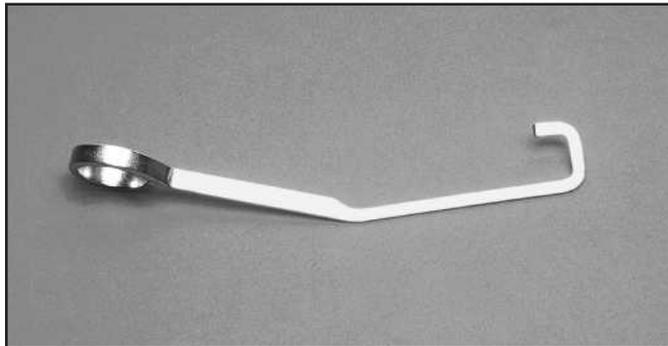


Capstan Regulating Tool

#1560

Simply the best tool available for regulating grand and upright capstans. Straight and angled ends for ease

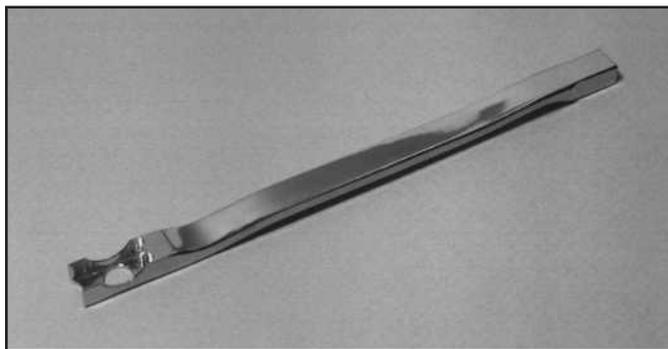
Regulating



Spoon Bender

#1565

Used to bend damper spoons in upright pianos.



Flange Spacer for Steinway/Baldwin

#1567

Also fits current Mason & Hamlin and Yamaha and our replacement parts for Baldwin. Designed to fit on flanges and is used to align hammers and strings. Particularly well suited for tightly spaced flanges.

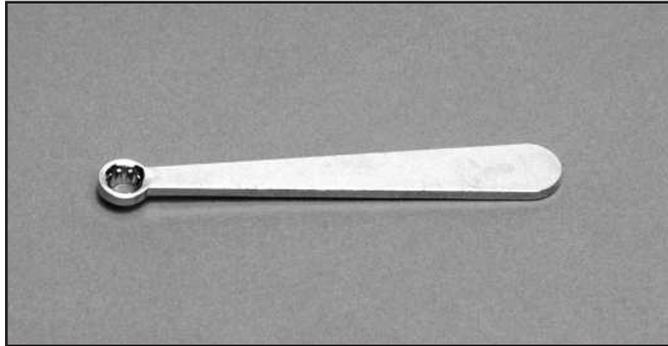


Renner/Mason Flange Spacer

#1568

Fits current Renner flanges as found on Bösendorfer, Schimmel, Bechstein, Fazioli, and our replacement parts for Mason & Hamlin as well as other fine pianos.

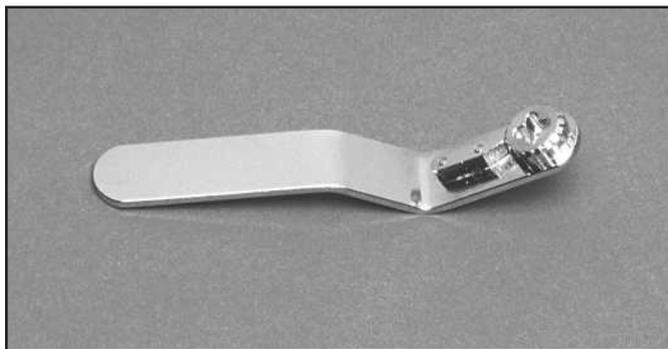
Regulating



Let-Off Regulating Tool
for Steinway

#1569

Traditional design used on Steinway and other pianos that use an eyelet type of let-off regulating screw.



Let-Off Regulating Tool

#1570

Ratchet design used on pianos that use an eyelet type of let-off regulating screw

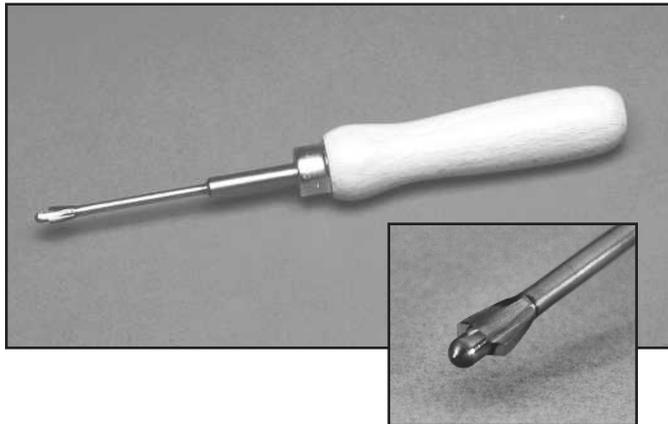


Key Spacing Tool

#1649

Fits over the key front rail pin to allow side to side spacing of keys.

Regulating



Balance Rail Hole Reaming Tool

#1656

Used for accurate reaming of the balance rail hole.



Medium Screw Starter

#1795A

Holds screw for easy installation. Use for installing vertical hammer butt and damper lever.

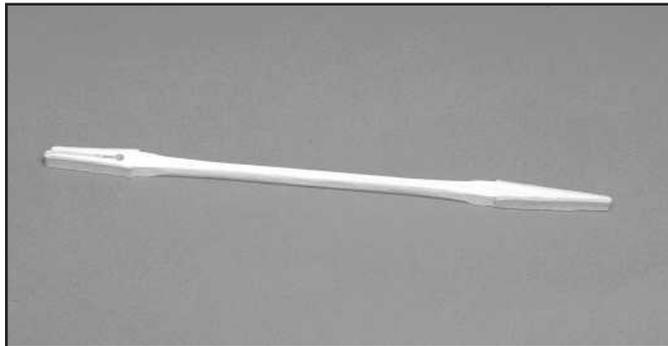


Large Screw Starter

#1795B

Holds screw for easy installation. Use for installing vertical hammer butt and damper lever.

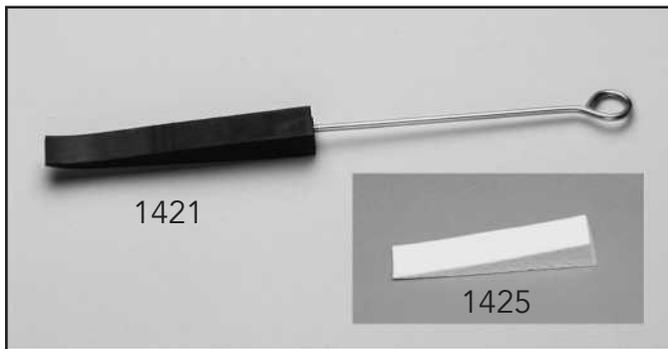
Tuning & Voicing



Tuning Wedge

#1420

This tuning wedge is made out of wood and covered with premium grade leather. Designed to mute a single string or between strings.



Rubber Tuning Wedge Felt Tuning Wedge

#1421 & #1425

Commonly used rubber wedge for upright pianos.

Felt wedge designed specifically for grand pianos. Preferred by some technicians to rubber wedges.

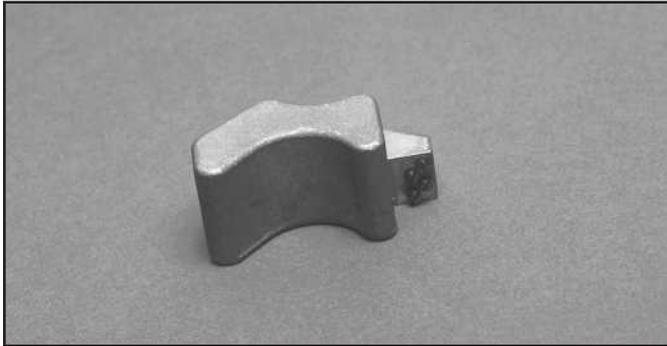


Straight and Angled Voicing Tools

#1430 A/B

Four needle light duty voicing tools available with straight or angled head for ease of use.

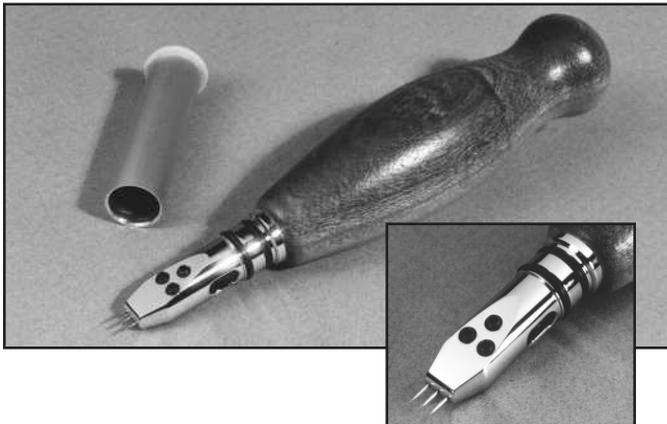
Tuning & Voicing



Upright Voicing Tool

#1430D

The perfect voicing tool designed specifically for upright piano actions.



Deluxe Voicing Tool

#1430E

Tool of choice for professional technicians. Ergonomic grip and special designed head reduces needle breakage. Custom cap seals to protect needles and technician.

Tuning & Voicing

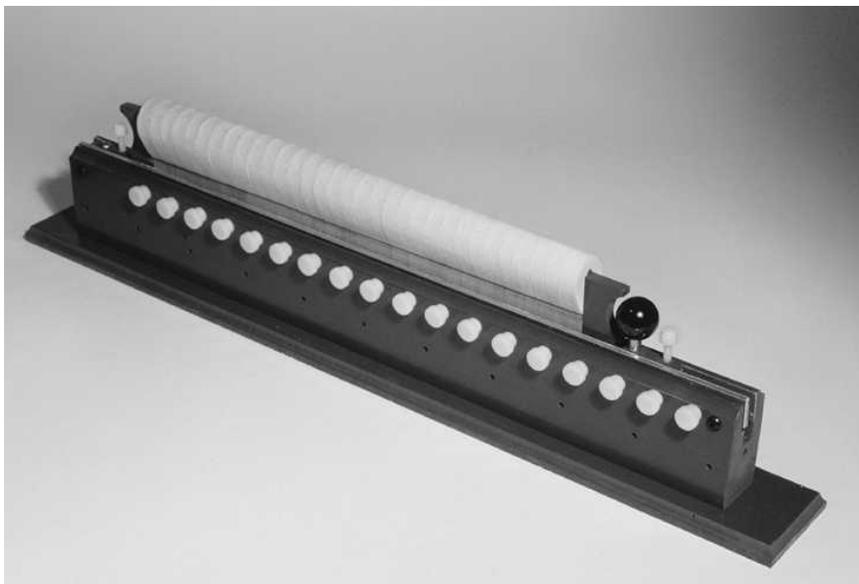


Grand String Height Gauge

Provides a direct reading of string height in a grand piano. Magnetic indicator spindle attaches to strings, even heavy wound strings, for a hands-free reading. Rule is scaled in 1/32 inch increments. Metric rule available. Accurate readings can be taken in a few minutes with no transfer errors. Will also take plate height readings. Constructed of tropical wood, HDPE, nylon and Delrin. Instructions included, including simple re-calibration procedure.

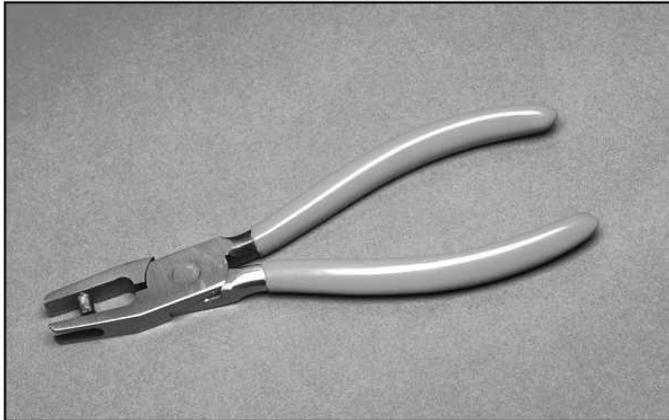
Universal Hammer Gang Clamp

For pre-filing and pre-voicing of all hammer styles. Two-way clamping pressure securely holds 1/3 set (up to 36 hammers). Adjusts for all molding sizes. Use on bench top; removeable base for securing in wood vise. Special canting feature. Simple setup, directions and wrench included. Constructed of PVC.



TOOLS

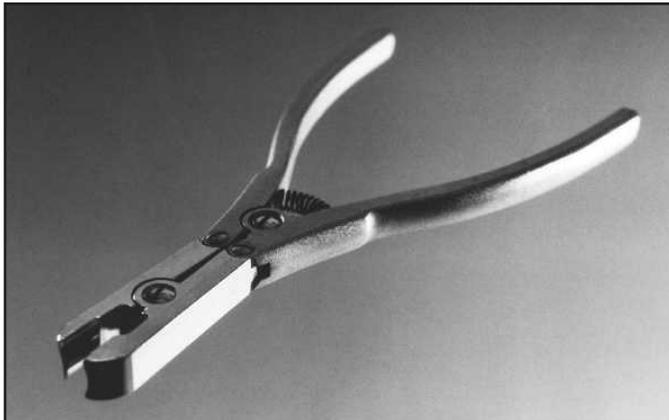
Pliers



Hammerhead Removing Pliers

#1574

These pliers are designed to remove entire sets quickly and easily.



Compound Bending Pliers

#1600

Commonly used for backcheck and damper wire bending to insure proper alignment. Has compound joint for increased leverage.

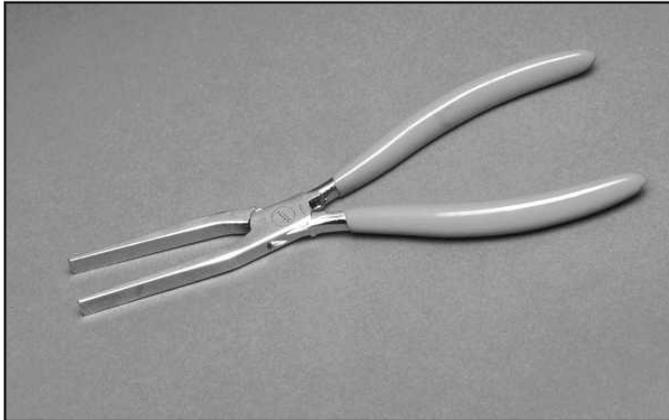


Check Bending Pliers

#1602

This design allows for fore and aft bending of wires. Creates the perfect angle for new backcheck installation.

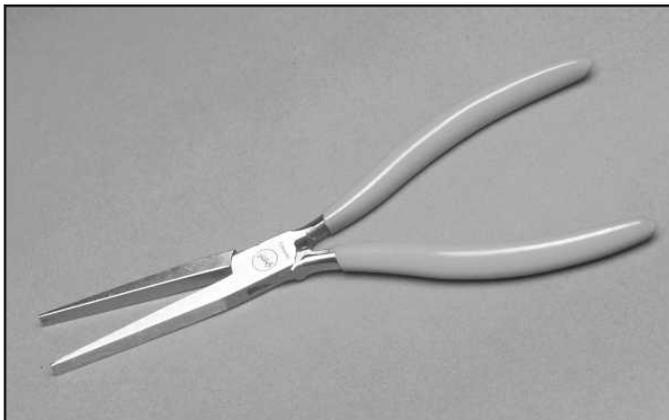
Pliers



Grand Damper Pliers

#1606

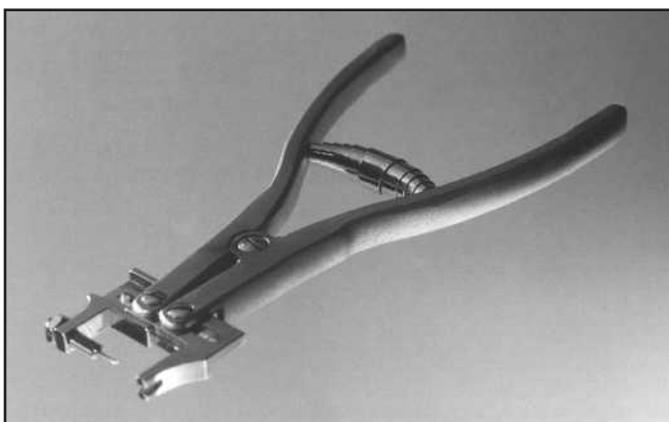
Grand Damper Pliers used for holding the damper head while bending the damper wire.



Damper Felt Easing Pliers

#1607

The unique parallel jaw design of these pliers allows for even compression of damper trichord felt.

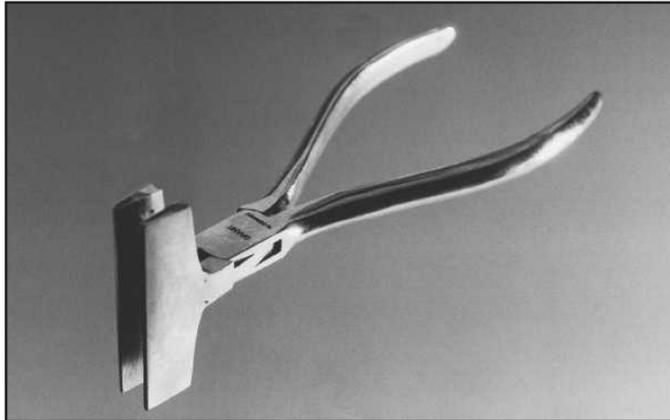


Center Pin Remover Pliers

#1609

These compound spring-loaded pliers feature an adjustable extraction pin.

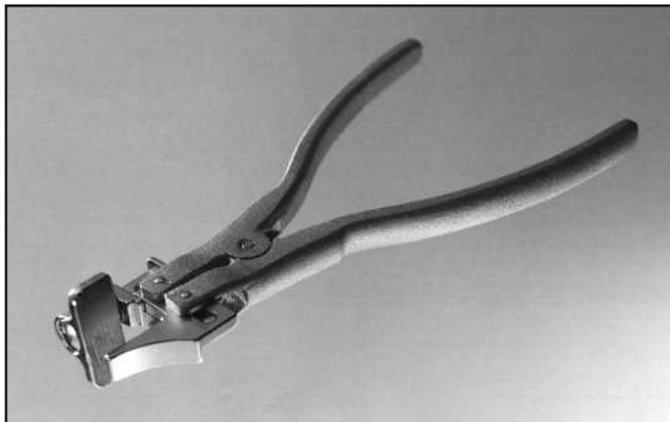
Pliers



Damper Felt Squeezing Pliers

#1613

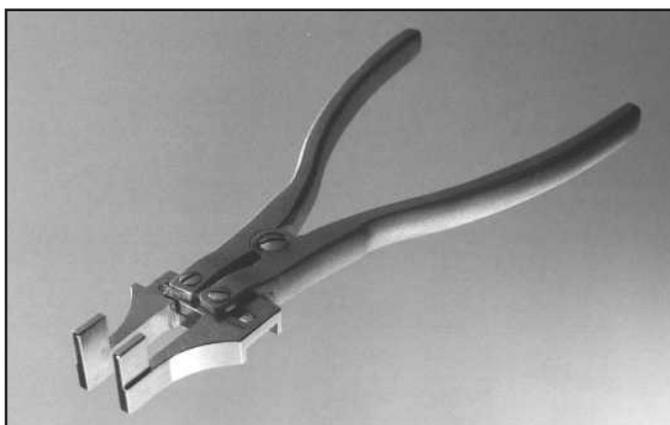
This tool reduces damper felt diameter and works great on bichord felt. Made from stainless German steel.



Key Easing Pliers

#1615

These compound leverage easing pliers feature parallel jaws and a free pivoting outer jaw for angled key bushings.

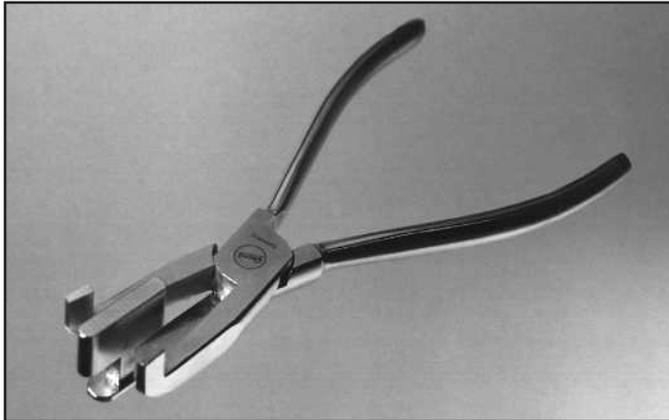


Key Easing Pliers

#1616

These compound leverage easing pliers feature parallel jaws and allow for regulation of front rail bushings without removal of the action stack.

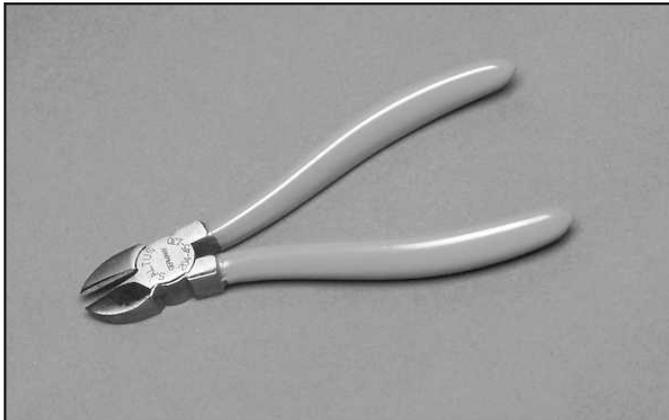
Pliers



Key Easing Pliers

#1617

These easing pliers feature a pivoting center jaw. Allows for regulation of front rail bushings without the removal of the action stack.



Piano Wire Side Cutter

#1630

These diagonal side cutters feature high-tempered, polished jaws at an angle allowing for maneuvering in tight spaces.



Center Pin Wire Cutter

#1632

An unique contoured head design allows for flush cutting of center pins. The best tool available for this job.

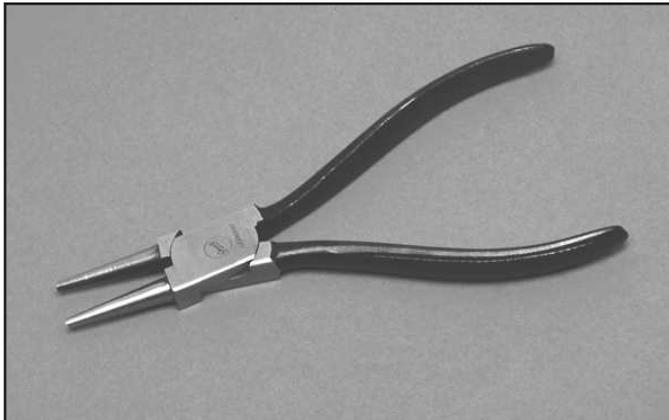
Pliers



Flat Nose Pliers

#1637

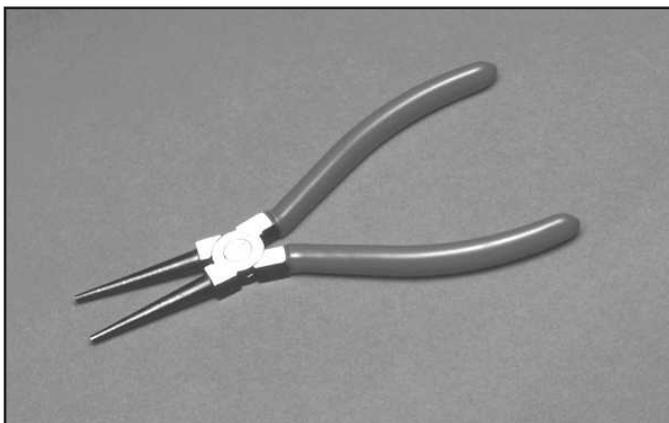
These pliers are great for wire bending and a variety of other uses.



Round Nose Pliers - 140mm

#1640A

These pliers are great for making string splices and individual ties.



Round Nose Pliers - 130mm

#1642A

These pliers are great for making string splices and individual ties. Rubber handle gives easy grip. Jaws are slightly longer than 1640A.

Pliers

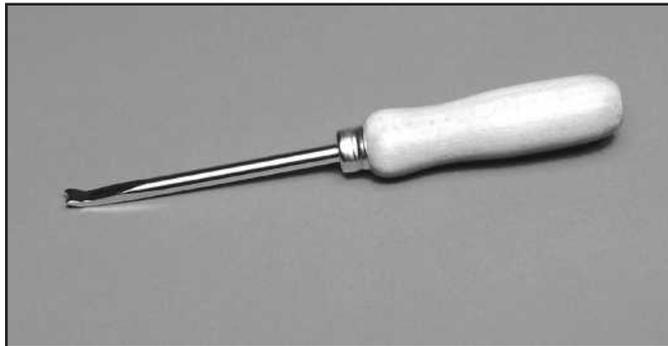


Deadleader pliers

DLP

Deadleader pliers for removing key leads.

Rebuilding & Repair



Coil Lifter

#1482A

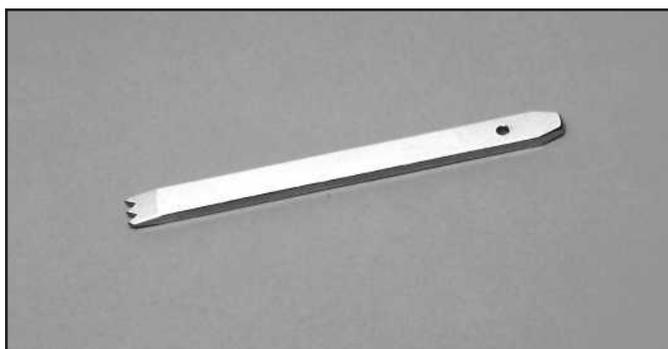
This tool is used to lift coils on tuning pins. A special indentation (groove) uses the adjacent pin for leverage in tight situations. Made from extra duty German steel.



Coil Lifter with Angled Shaft

#1482B

This tool is used to lift coils on tuning pins. It has an angled shaft for increased leverage.

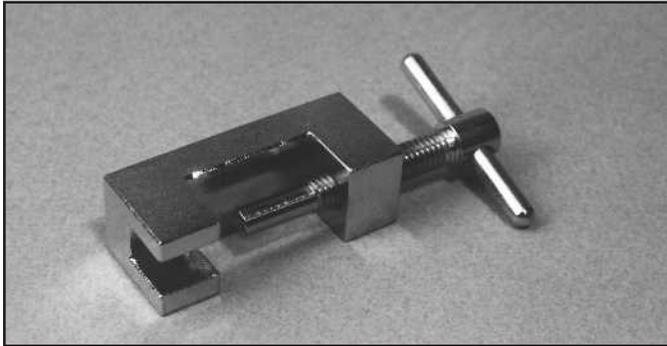


Bridge Pin Punches

#1492

This tool is used to mark bridge pin holes prior to drilling.

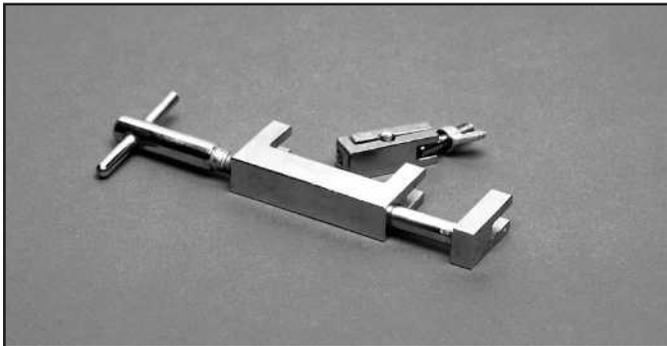
Rebuilding & Repair



Grand Hammerhead Extractor

#1571

This small convenient tool is used to extract hammerheads from shanks on grand pianos. A must for the traveling technician.



Upright Hammerhead Extractor

#1572

Same function as 1571 but for upright pianos.

Rebuilding & Repair



Hammershank Cutter

#1588

This handy tool is excellent for quick field repairs.



Knuckle Removing Pliers

#1589

This tool is designed to remove knuckles from grand piano hammershanks.



Hammershank Reamer

#1591

This tool is used to reduce the diameter of hammershanks and allows proper dressing of hammershank after hammerhead extraction.

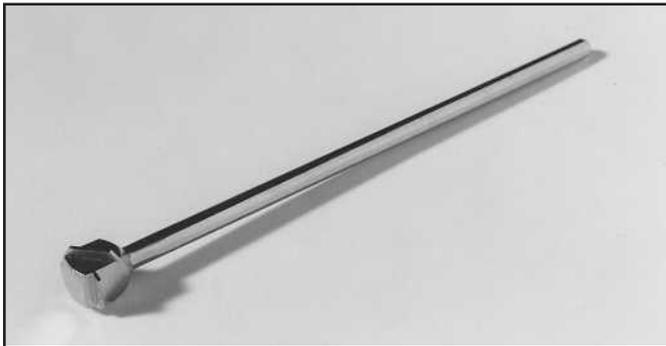
Rebuilding & Repair



Hammer Reamer

#1853

This tool is used for reaming hammer heads for custom fit prior to glueing.



Offset Screwdriver

#1793

A useful tool in tight spaces.

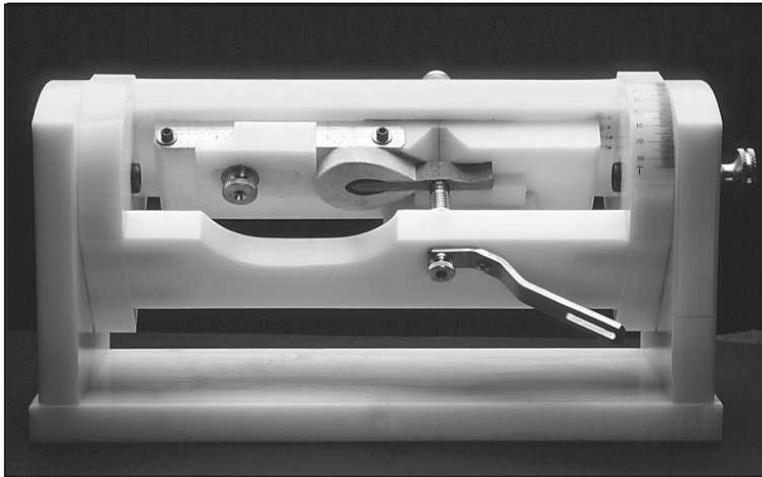


Flange Bushing Cloth
Calibration Tool

#1855

This handy tool sizes bushing cloth prior to installation. Design for use with Renner's exclusive pre-glued and pre-cut flange bushing cloth.

Rebuilding & Repair



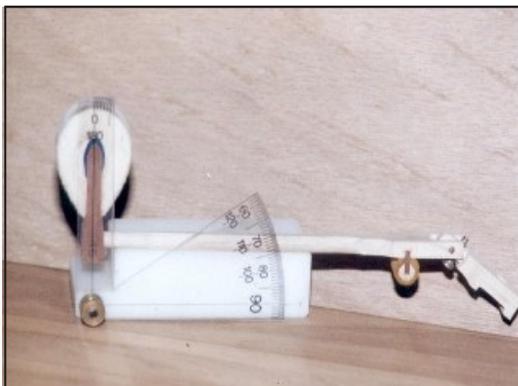
Renner Deluxe Hammer Boring Jig

We are proud to introduce and recommend the newly designed and completely handmade Hammer Boring Jig which is now being offered exclusively by Renner USA. This unique tool has been carefully developed and refined over the past 4 years by talented engineers and leading piano technicians and is the same device used by Renner USA in the custom boring of all their Premium Blue hammers.



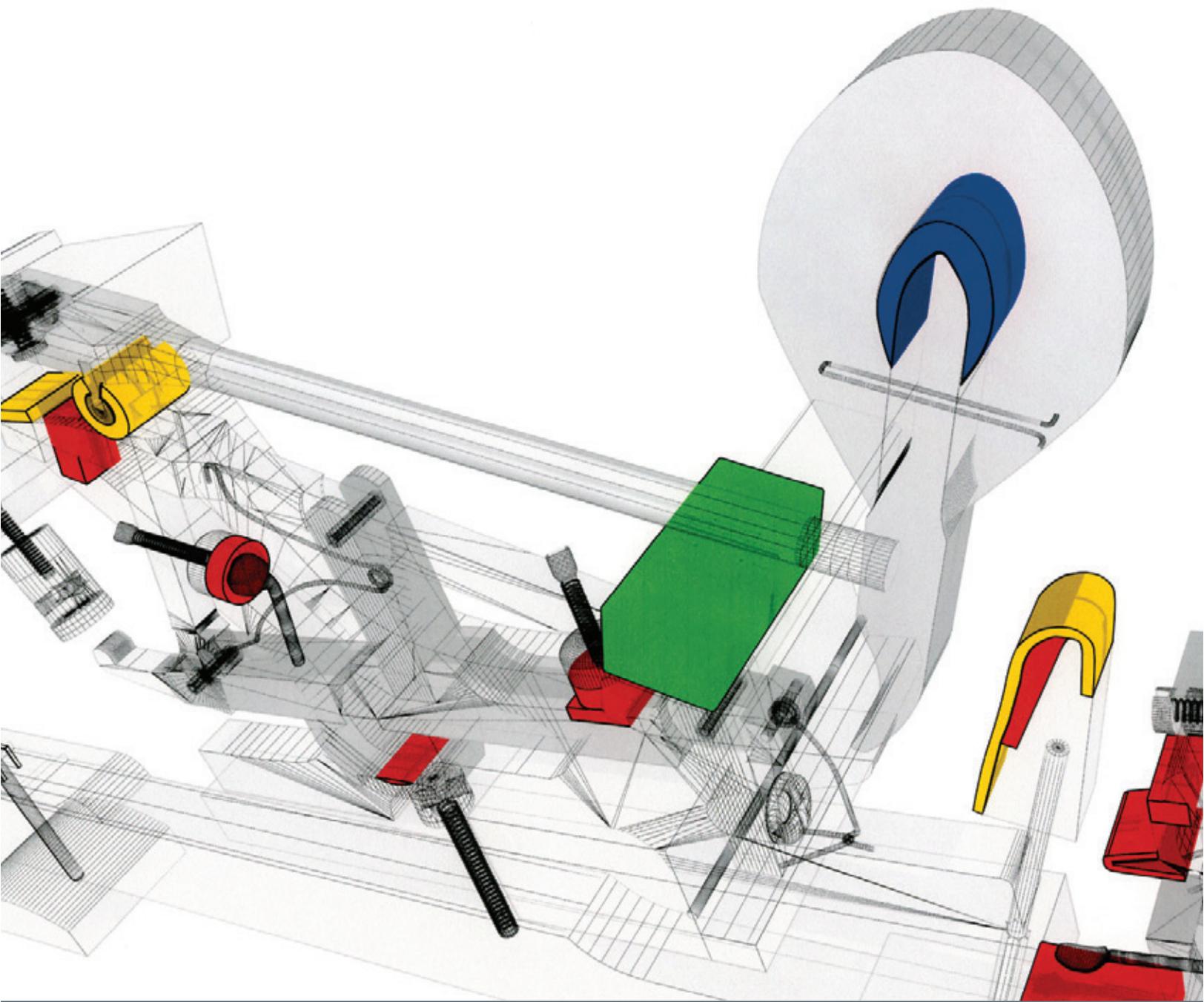
Hammer Side Taper Jig

Tool for side tapering piano hammers for use with table saw (2 hammers per pass).



Hammer Angle Gauge

Tool for measuring the angles of piano hammers on shanks.



RENNER[®]
USA Division of
Lloyd Meyer & Company