



John Tuttle's **PLAYER-CARE**  
*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



Service/Technical Manuals -[\(click\)](#) Used Player Piano Parts -[\(click\)](#) Testing the Player Piano -[\(click\)](#)  
Player Technicians Listing -[\(click\)](#) Player Piano Makers -[\(click\)](#) Player Piano Roll Makers -[\(click\)](#)  
**Service Manuals & Technical Reprints - [Click Here!](#)**

## *Player Piano Supplies from Player-Care*

(Updated Apr 11, 2016)

**Top Quality Supplies - First Rate Service - Money-Back Guarantee**

As of Jan 19, 2016: Regarding shipping, items are combined into one order whenever possible to save on the cost of shipping. By default, all goods are shipped via USPS Priority Mail in Flat Rate boxes or envelopes with Delivery Confirmation. Unless otherwise noted, the Minimum Shipping charge within the U.S. is \$6.95 and \$29.25 to most overseas locations. To read our Privacy Policy, please [click here](#). To read our 'Returned Goods' policy, please [click here](#).

For more detailed information about how we conduct business at Player-Care -[click here](#).

[Aeolian \(Modern\) Hammer Return Springs](#)

[Aeolian \(Modern\) Plastic Block Valves](#)

[Aeolian \(Modern\) Power Cord](#)

[Aeolian - Duo-Art Valve Plates](#)

[Aeolian Upright Valve Plate Gaskets](#)

[Ampico 'A' 3/8" ID Drawer Hoses \(set of 3\)](#)

[Ampico 'A' Expression Valve Bushing](#)

[Ampico 'A' Function Switches](#)

[Ampico 'A' Motor Mounts](#)

[Ampico 'A' Primary Valve Button](#)

[Ampico 'A' Pump Spill Valve Springs](#)

[Ampico 'A' Stack Flange](#)

[Ampico 'A' Tempo Slide Plate](#)

[Ampico 'A' Transmission Frame](#)

[Ampico 'A' Valve Block Springs](#)

[Ampico Valve Block Plates](#)

[Ampico 'A' Valve Block Seats \(Intake\)](#)

[Ampico 'B' Block Valve Gaskets](#)

[Ampico 'B' Block Valve Parts & Gaskets](#)

[Ampico 'B' Expression Clamp Springs](#)

[Ampico 'B' Pump Crescendo or Spill Springs](#)

[Ampico 'B' Forward Roll Brake Drum](#)

[Ampico 'B' Reroll Brake Drum](#)

[Ampico/Amphion Pneumatic Flange Finger](#)

[Automatic Rewind / Reroll Device](#)

[Automatic 'Off' / Pushbutton 'On' Device](#)

[Bellows Cloth \(Rubberized Cloth\)](#)

[Blotter Paper for Gaskets](#)

[Brass Air Switch](#)

[Brass Bleed Cups](#)

[Brass Tubing Elbows \(Large\)](#)

[Brass Tubing Elbows \(Small\)](#)

[Brass Tubing Elbows 7/32" \(Used\)](#)

[Brass Tubing Connectors](#)

[Bridle Straps for Pianos](#)

[Bushing Cloth \(Woven Felt\)](#)

[Butts, Flanges, Catchers](#)

[Cabrette Leather](#)



[Cork-Rubber \(and Blotter\) Gaskets](#)

[Countersunk Washers](#)

[Cremona/Seeburg Lamps](#)

[Deluxe Full Automation Kit](#)

[Die Cut Gaskets](#)

[Dow Corning 3140 Sealant](#)

[Electric Vacuum Pump Kit](#)

[End Tabs & D-Rings](#)

[Felt Washers / Punchings](#)

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[Nelson-Wiggen decal](#)

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[Outward Pressure "V" Pedal Return Springs](#)

[Packing Leather](#)

[Pedal Webbing for Reed Organs or Hinges](#)

[PianoCorder Tape Deck \(PT-100\)](#)

[Phenoseal Plastic Sealer](#)

[Pinion Gear for Standard Transmission](#)

[Plastic 8 oz. Squeeze Bottle](#)

[Pneumatic Jig for Small Bellows](#)

[Pneumatic Fingers \(wooden\)](#)

[Primary Valve Buttons](#)

[Primary Valve Facings](#)

[Pushbutton Assembly for Manual Operation](#)

[Regulating Buttons \(wooden w/felt pad\)](#)

[RTV Sealant for Pouches](#)

[Rubber Tubing / Twill Covered Hose](#)

[Simplex Block Valve Caps](#)

[Simplex Block Valve Kit](#)

[Simplex & Wurlitzer Block Valve Gaskets](#)

[Spring Rail Felt](#)

[Spring-Steel Flat Pushbutton Springs](#)

[Standard Take-Up Spool](#)

[Standard Valve Guides](#)

[Standard Valve Parts](#)

[Straight Nipples \(Tubing Connectors\)](#)

[Tracker Valve Facings](#)

[Trackerbar Tubing Plastic "T" & "Y" Connectors \(9/64" OD\)](#)

[Trackerbar Pump](#)

[Tubing Elbows \(Small\)](#)

[Universal P-2 Circuit Board](#)

[Universal Power Cord](#)

[Universal Valve Facings & Valve Pushers](#)

[Vacuum-Operated Standard Pouch Setting Tool](#)

[Valve Block Gaskets](#)

[Valve Gapping Tool](#)

[Wurlitzer Block Valves](#)

[Wurlitzer Block Valve Caps](#)

Player Piano Parts and Supplies: I have literally thousands of miscellaneous parts and supplies for player pianos; some new, some used. If you can't find it anywhere else, send me an email ([click here](#)) and I'll try to locate it for you. Since I no longer service or rebuild players, everything I've collected since 1972 is for sale.

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## Problem Placing an Order -- Call 732-840-8787

These Cards Gladly Accepted



***Top Quality Supplies - First Rate Service - Money-Back Guarantee***

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For more detailed information about how we conduct business at Player-Care -[click here](#).

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## Bellows Cloth

+++ Colors of the cloth may change but the quality will not +++  
All cloth is sold by the "RUNNING YARD" (or Foot) -Width of each type varies  
Minimum "Length" we'll cut for ALL Cloth is six inch increments!!

For those who use Millimeters, use the handy calculator below ([Click Here](#))

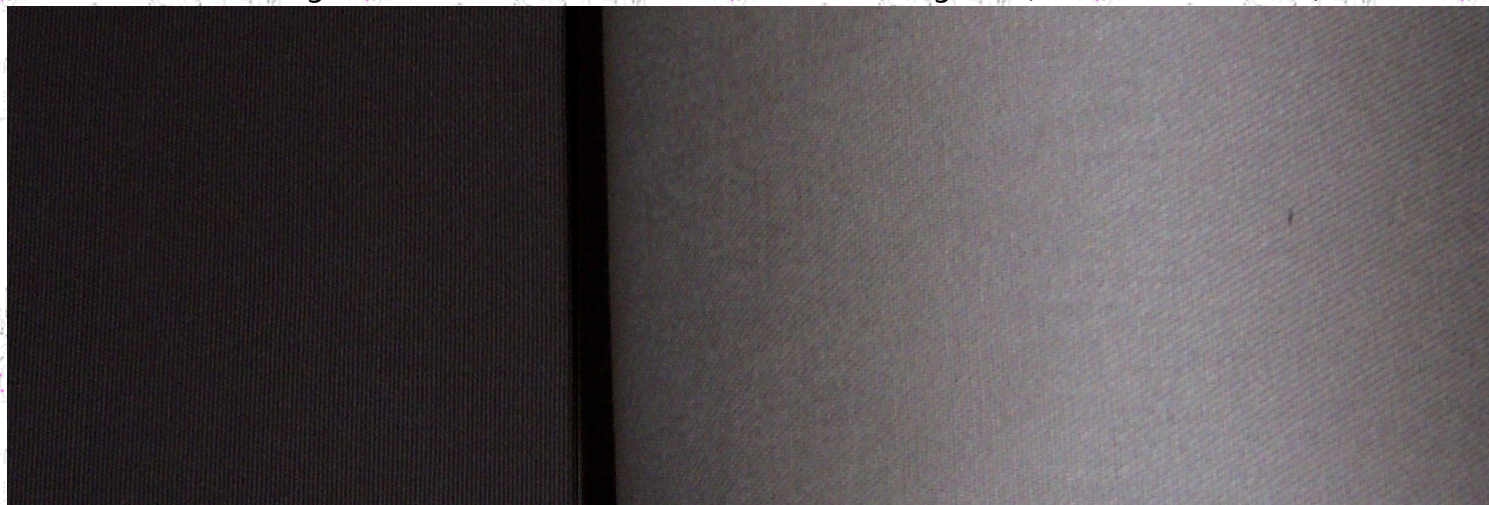
["How much cloth do I need?" - Click Here](#)

[My cloth looks good. Should I change it? - Click Here.](#)

[Left-over pieces of cloth at a discount -Click Here](#)

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'Heavy' Bellows Cloth....\$113.75/yd. (or \$43.75/ft.)



(Outside color is now black)

The thickness of this heavy cloth is 0.044". An excellent cloth for feeders, exhausters, and reservoirs. Cotton inside and acrylic outside with a 0.034" inner layer of the highest quality natural rubber. Color is tan on the inside (cotton side) and black on the outside (acrylic side). The maximum width is 60 in., available in any length. Also available in 6" x 60" strips for \$24.00. Will also sell strips of less than 6" wide for \$9.75/sq ft. This cloth is also good for making a 'Mandolin Rail' or 'Honky-Tonk' device. We also sell the '[Mandolin Rail Tabs](#)' -[click here](#). To place an order, [Click Here](#). (If ordering strips, specify the required width.) Minimum shipping for two (2) or more feet of heavy cloth is \$13.45.



NOTE: (Limited Supply) Looking for "very heavy cloth" (0.050 in.)? Call 732-840-8787.

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### Peripheral Devices Cloth ....\$106.25/yd. (or \$41.25/ft.)



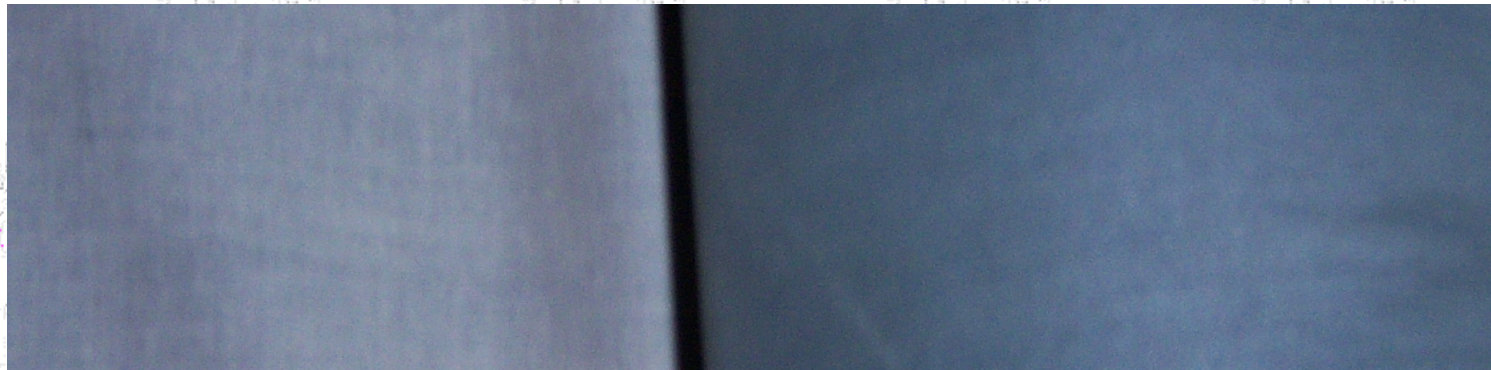
This general purpose cloth is superb for Air Motors, Tracking Devices, Air Motor Governors, Auto-Sustain, and any other application where a medium weight cloth is required. Black/Maroon with natural rubber in the middle. Thickness is 0.014". Width is 51".

Due to an increasing demand for correctly biased strips of motor cloth for Spring-Loaded devices like Air Motor Governors, Auto-Sustains, and Equalizers, I am now offering 6" x 25" strips of this cloth for \$13.69 ea.

To place an order, [Click Here](#). (If ordering strips, specify; Strips of Type "A" cloth). NOTE: The outside (maroon side) of the cloth is a bit smoother and shinier than the inside (black side). You can feel the difference when you touch the cloth. In a bright light, you can also see the difference.

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### Striker Pneumatic Cloth.... \$89.25/yd. (or \$33.95/ft.)



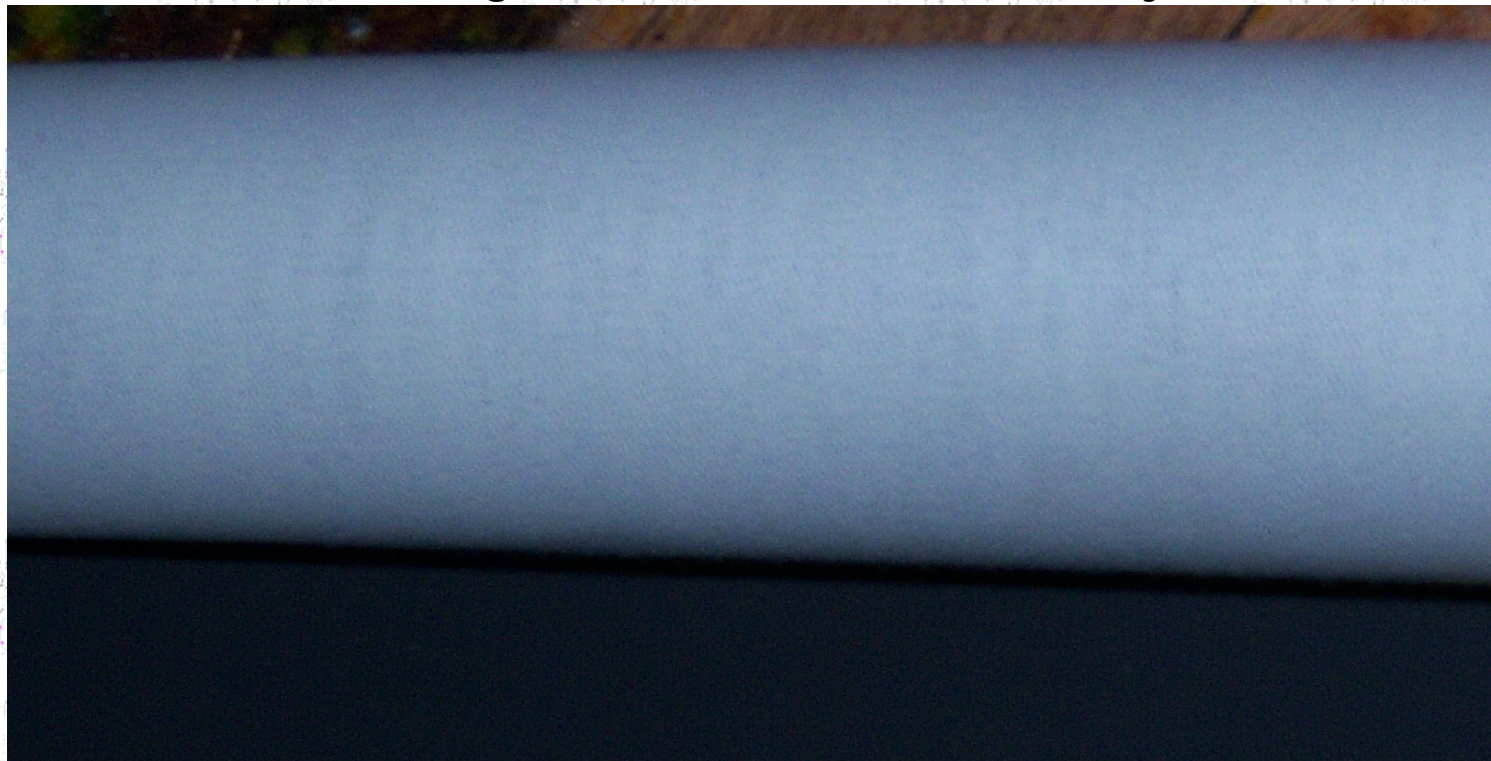
Simply the finest 'rubber-coated' Striker Pneumatic Cloth in the World. Thickness is 0.009 in. Width is 52 in. Have a small job that requires very little cloth? 6" x 25" strips are available for



\$9.95. To place an order, [Click Here](#).

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Reed Organ Bellows Cloth.... \$78.00/yd.



This is excellent quality reed organ bellows cloth. White cotton cloth inside with a thick natural rubber coating on the outside. Thickness is 0.025 in. Width is 58 in. Sold by the running yard (36 in.) or in strips measuring 2-1/3 ft. x 7 ft. for \$5.80/sq. ft. (\$94.73). Saves you at least 33% over the cost per running yard if you are only rebuilding one reed organ. Minimum shipping cost is \$13.45 (includes Delivery Confirmation). NOTE: This cloth is not recommended for use in player pianos. To place an order, [Click Here](#).

Need a specific size strip of reed organ cloth? Don't hesitate to [write to me](#)! \$6.00/sq. ft. 'A reasonable price for custom-cut pieces'!!



## Premium Hide Glue



This is not your grandfather's animal hide glue. This glue has been specifically formulated by [Craig Brouger](#), a leading specialist in automatic musical instrument restoration, for use in rebuilding all types of automatic musical instruments. Mr. Brouger has spent years perfecting this glue, which is now available to the general public only through Player-Care. The gram weight strength of the glue is 222 grams. Satisfaction Guaranteed or Your Money Back!!!

Sold in minimum One-Half Pound Bags for \$7.50 per bag. One-Pound Bags for \$14.00. Five-Pound Bags for \$60.00. Click Here for the [Complete Instructions on How to Prepare and Use](#)

[This Glue](#). To place an order, [Click Here](#). Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. NOTE: A convenient applicator for hot hide glue is the [8 oz. squeeze bottle](#).

## Glue Pot

Excellent quality electric glue pot with aluminum inner liner. This unit is preset at the factory for the ideal temperature of 145 degrees, but it does have an internal thermostat that is adjustable. Cost: \$165.00. Minimum Shipping: \$13.45. To place an order, [Click Here](#).

## Electric Vacuum Pump Kit \$375.00

**(TEMPORARILY OUT OF STOCK 5/4/2016 -[Waiting List-Click Here](#))**

Guaranteed and Supported by Player-Care  
How quiet is the pump? View the video [-click here.](#)

Tired of Pumping your player piano. This vacuum pump produces from 0"-50+" of water vacuum (WC). Enough to compensate for a lot of leakage. The 'Kit' also contains a Dual Electronic Voltage Controller for adjusting the volume of the music and how fast the music roll is rewind. The inter-connecting tubing, wiring and all necessary connectors are included. Easy to install. One year guarantee on the electronic parts, and a five year guarantee on the vacuum pump. Space required for the pump is 8" square by 10" high, normally installed in the bottom of the piano on the right hand side of the Exhauster Assembly. UPS Ground Shipping/Insurance: \$25.00 maximum amount within the 48 contiguous states.



[Installation Instructions/Diagram -click here.](#)

To place an order, [Click Here.](#)

[Why our electric vacuum pump kit is Safe and Quiet -  
Click Here](#)

[Need a Used Vacuum Motor? \(click here to see  
picture\)](#) 28" vacuum minimum - \$40.00/2-yr warranty  
(under normal usage).



[Click for Larger Image](#)

## **Deluxe Full Automatic System Kit....\$625.00**

**(TEMPORARILY OUT OF STOCK 5/4/2016 - [Waiting List-Click Here](#))**

Guaranteed and Supported by Player-Care

Contains everything in the 'Regular' kit plus an [Auto Re-Roll Device](#) and an [Auto Shut-Off Device](#). Everything you need to Electrify and Automate your Player Piano. Complete with installation instructions, tubing, connectors and wiring. Playing a roll becomes a 'push-button' operation. One year guarantee on all electronics, five year guarantee on the vacuum pump. Space required for the pump is 8" square by 10" high, normally installed in the bottom of the piano on the right hand side of the Exhauster Assembly. UPS Ground Shipping/Insurance: \$30.00 maximum amount within the 48 contiguous states.

**Due to the possibility of freezing, this product will no longer be shipped during the Winter months!!**

**Phenoseal - Plastic Sealer**

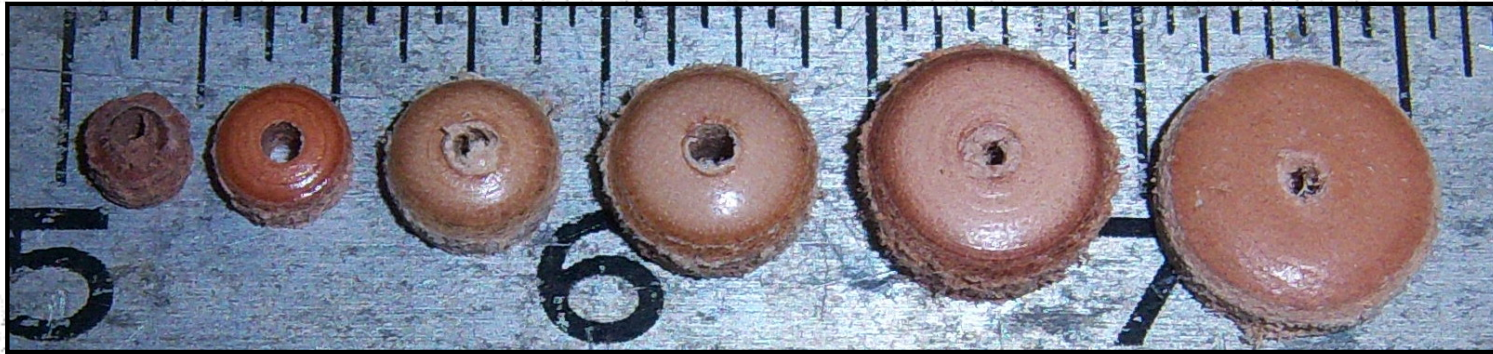
[\(Difference between Phenoseal and PVC-E\)](#)

**DO NOT BUY THIS PRODUCT UNTIL YOU  
HAVE READ THIS WEBPAGE-CLICK HERE**

For sealing wood - or just about anything. Dries clear and seals the smallest cracks or pin-hole leaks 100% with just one application. Can be brushed or poured and drained. It is strongly recommended that any internal surfaces which face vacuum channels in a player action be coated with this product. Phenoseal is slightly plastic and will stretch and contract with changes in temperature and humidity without cracking or pulling away, as is the case with the original shellac or varnish sealers. Phenoseal will stick to the original sealers, so removing them is not necessary. Phenoseal remains slightly tacky, so DO NOT coat a surface that a valve will seat on. (Read my article in the Mechanical Music Digest -[click here.](#)) Sold in 8 oz. plastic bottles for \$17.50, or One Quart plastic bottles for \$49.25. Minimum shipping: \$6.95 (8 oz. size) or \$11.95 (32 oz. size). Also, check out the "Hypo-Oiler" for \$8.00 with any size order -[click here](#) To place an order, [Click Here.](#)



## Leather Nuts



High Quality Leather Nuts for all types of uses. The holes cut in the center may have to be enlarged for a specific diameter of threaded rod. Existing holes are primarily provided for centering, to make it easy to drill out. To place an order, [Click Here](#). (Priority Shipping \$6.95 minimum. Includes Delivery Confirmation.)

Stock NO.	Size	Hole Dia.	each	per 100
603A	3/16"	.058	\$0.45	\$35.00
603B	1/4"	.070	\$0.34	\$27.60
603C	5/16"	.070	\$0.33	\$26.72
603D	3/8"	.086	\$0.36	\$30.00
603E	7/16"	.0635	\$0.40	\$34.00
603F	1/2"	.0635	\$0.42	\$36.00

[How to size and install leather nuts](#)

## Felt Washers and Punchings

High Quality Felt Washers for use between leather nuts and wooden flange fingers and metal or wooden linkages of any type. Felt Punchings are used on wooden buttons, stickers, and fingers for quieting and bumpering. Slightly compressible. Center hole in the felt washers will expand easily to fit most applications. To place an order, [Click Here](#). (Priority Shipping \$6.95 minimum. Includes Delivery Confirmation.)

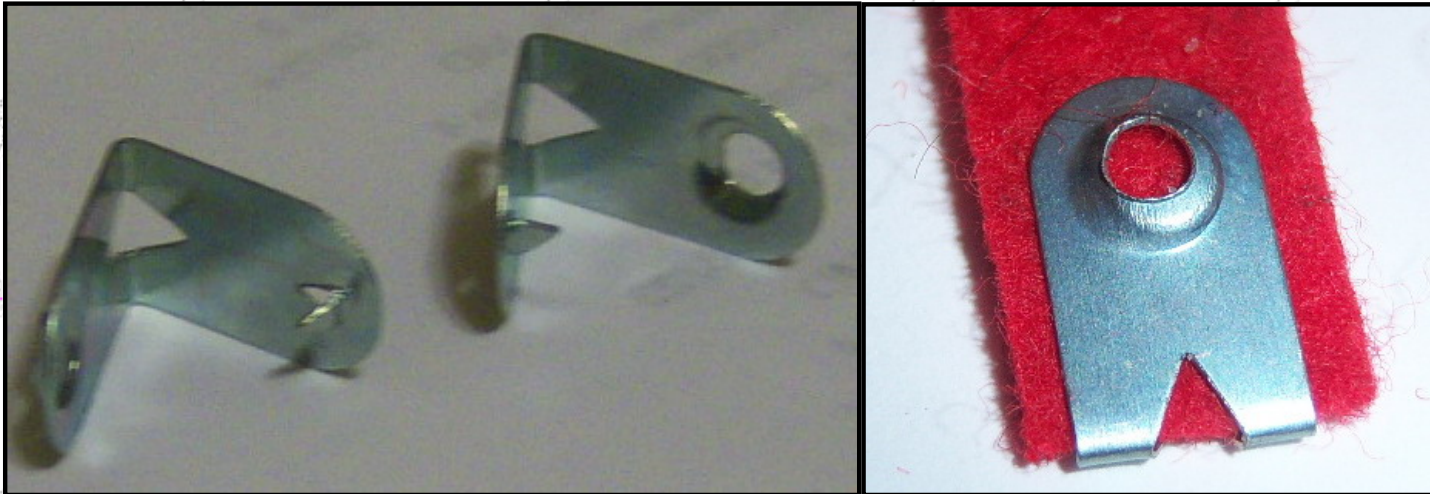
Stock No.	Color	I.D.	O.D	Thickness	per Dozen	per 100
873 (woven)	red	1/32"	3/8"	1/16"	\$2.10	\$14.00
332F (woven)	red	1/8"	31/64"	3/64"	\$2.10	\$14.00
872 (woven)	red	1/8"	3/8"	5/64"	\$4.30	\$28.75
875	maroon	3/32"	3/8"	3/32"	\$2.10	\$14.00
876	brown	none	3/8"	1/8"	\$3.25	\$21.50
1838 (woven)	brown	none	7/16"	3/32"	\$4.05	\$26.81
332C (woven)	white	7/64"	31/64"	3/32"	\$2.10	\$14.00

## Flap Valve Leather

After numerous requests, we are now stocking flap valve leather for the main exhauster bellows in player pianos. They measure 2-1/2" x 12" and cost \$8.00 each. We also carry flap valve leather for reed organ exhauster bellows which measure 2-1/2" x 15", and sell for \$11.00 each. And, we also have flap valve leather that measure 2-1/4" x 14" which sell for \$10.00 each. All flap leather is 0.050"-0.060" thick. Also, I am now accepting orders for custom-cut flaps if I have a slightly larger piece available. Cost will be \$0.35 per square inch. Example: 2" x 8" flap will cost \$5.60. To place an order, [Click Here](#). Priority Shipping \$6.95 minimum (US ONLY). Includes Delivery Confirmation.

## Mandolin Rail Tabs

"Mandolin Rail Tabs are now available at Player-Care. These are the type that simply squeeze onto the medium-heavy bellows cloth with a pair of pliers. There are 100 tabs per envelope, and the cost per set is \$16.90. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#). To read information about the mandolin rail, [click here](#)





## **Invisible Player Piano Hinges** **(Flip-Board Hinges)**

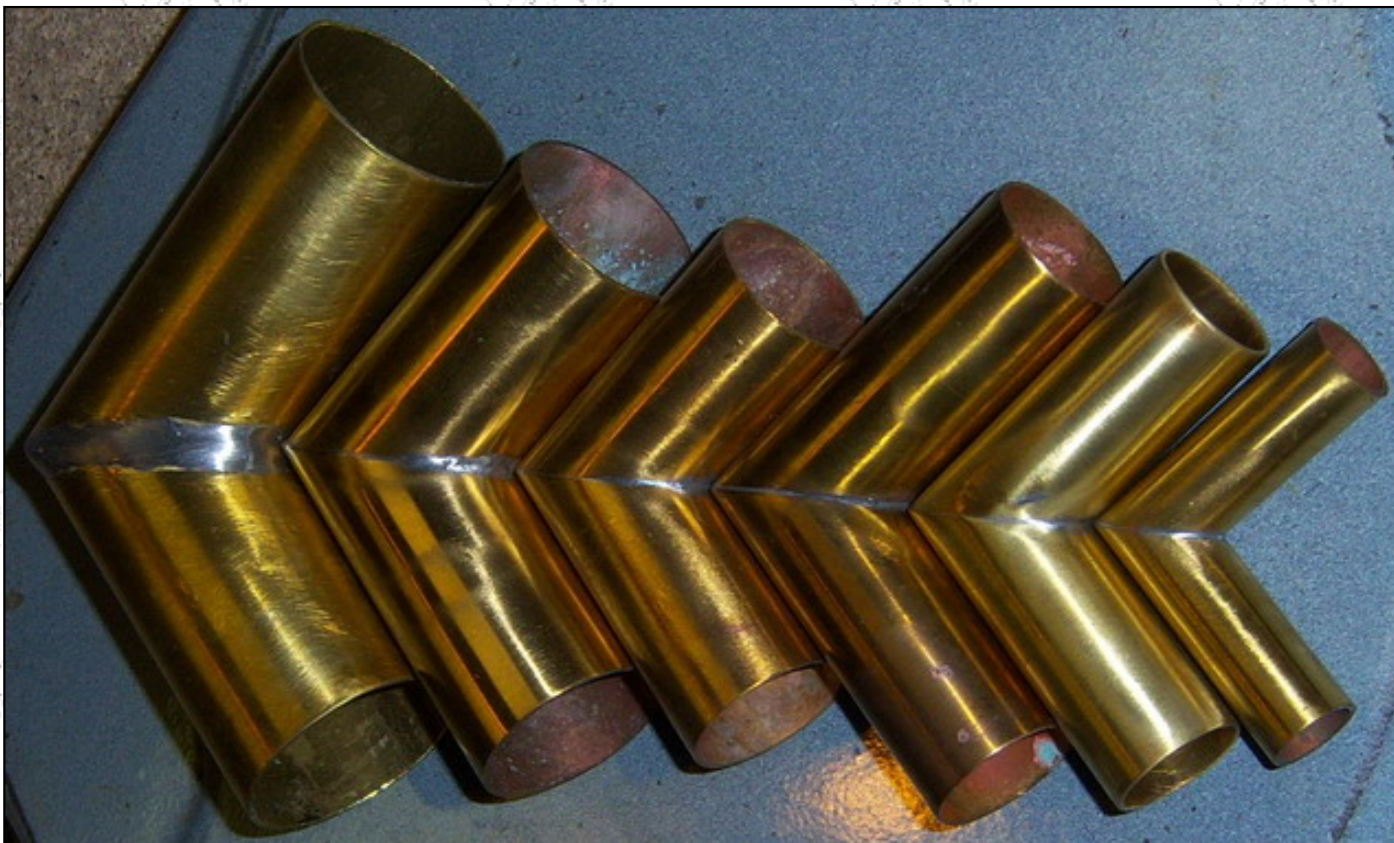


Part No.	Size O.D.	Each	Per Set (Three)
IH-1 (dull brass plated)	1" x 3/8"	\$13.50	\$36.75
IH-2 (nickel plated)	1" x 3/8"	\$13.50	\$36.75
IH-3 (nickel plated)	1-3/4" x 3/8"	\$17.50	\$47.55
IH-3B (dull brass plated)	1-3/4" x 3/8"	\$17.50	\$47.55
IH-4 (dull brass)	1-1/2" x 1/2"	\$18.50	\$49.75



Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

## **Brass Tubing Elbows (Large)**



All of the sizes are not shown here.

Part No.	Size O.D.	Each	Status
BR-E5	1/2" O.D.	\$12.85	See <b>NOTE</b>
BR-E6	5/8" O.D.	\$13.23	See <b>NOTE</b>
BR-E7	3/4" O.D.	\$14.08	In Stock
BR-E8	7/8" O.D.	\$14.90	In Stock
BR-E9	1" O.D.	\$17.33	In Stock
BR-E10	1-1/8" O.D.	\$17.85	See <b>NOTE</b>
BR-E11	1-1/4" O.D.	\$18.95	In Stock
BR-E12	1-1/2" O.D.	\$20.05	In Stock

**NOTE:** Materials in stock, allow 3 days to make the parts.


To provide for maximum air flow, these elbows are made out of thin wall brass tubing (0.065").



This type of brass elbow is not available at any type of 'walk-in' store or business that's open to the public. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

## **Tubing Elbows (Small)**

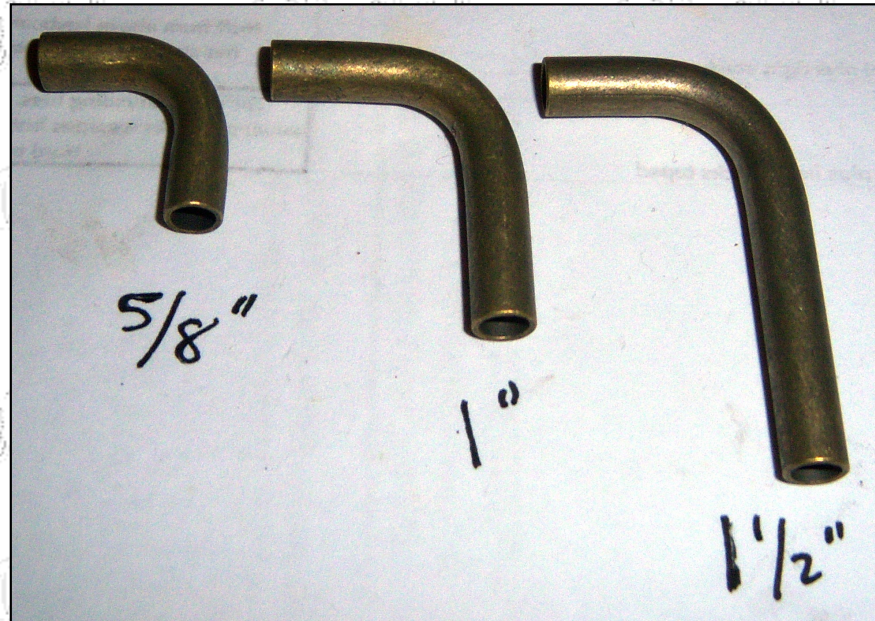


Size O.D.	Price	Per Dozen	Per Hundred
5/32" BR	\$1.85	\$21.53	\$164.50
3/16" BR	\$1.95	\$22.23	\$175.50
7/32" AL	\$2.05	\$23.37	\$184.50
1/4" BR	\$2.65	\$30.21	\$238.50
3/8" AL	\$3.25	\$33.15	N/A
1/2" BR	\$4.25	\$43.35	

Picture of 1/2" elbow

"BR" designates elbows that are made from brass. "AL" designates elbows made from aluminum. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### Used 7/32" Brass Elbows



These used 7/32" brass elbows have been tumble cleaned. Specify the length noted in the above picture when ordering, example: 7/32" x 1" used elbow. There is a limited number of these elbows. So, when they're gone, they will no longer be available. The 5/8" elbows are \$1.45 each. The 1" are \$1.75 each. And the 1-1/2" are \$2.25 each. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

## Straight Nipples (Tubing Connectors)



Size O.D.	Length	Price	Per Hundred
5/32"	7/8"	\$0.70	\$60.00
5/32"	1-1/4"	\$0.75	\$65.00
3/16"	1-1/4"	\$1.05	\$94.00
7/32"	1-1/16"	\$1.20	\$100.00
1/4"	1-1/16"	\$1.30	N/A

Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).



## Ladder Chain



"Ladder Chain" is now available at Player-Care. This is the most common size used in player pianos for the air motor and the transmission. It is made from high tensile coppered steel. Will not stretch or rust. There are 42 links per foot. The cost per foot is \$6.75. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

## "T" and "Y" Trackerbar Tubing Connectors Special 3/8 in 'T' (w/9/64 in leg) Connector



These connectors are used in various locations in player pianos and orchestrions when valves need to be activated in or from multiple locations, i.e. two different ports on the trackerbar or by a pushbutton and a port on the trackerbar. The inside diameter of all these connectors is larger than a trackerbar hole. The plastic "Y" connectors are \$0.64 each. The small plastic "T" connectors are \$0.90 each. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### **Special 3/8 in 'T' (w/9/64 in leg) Connector**



These connectors are used in various locations in player pianos and orchestrions when in-line vacuum testing is necessary or desired. These are custom-made for Player-Care, and are not available in any other marketplace. The cost per piece is \$17.50. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).



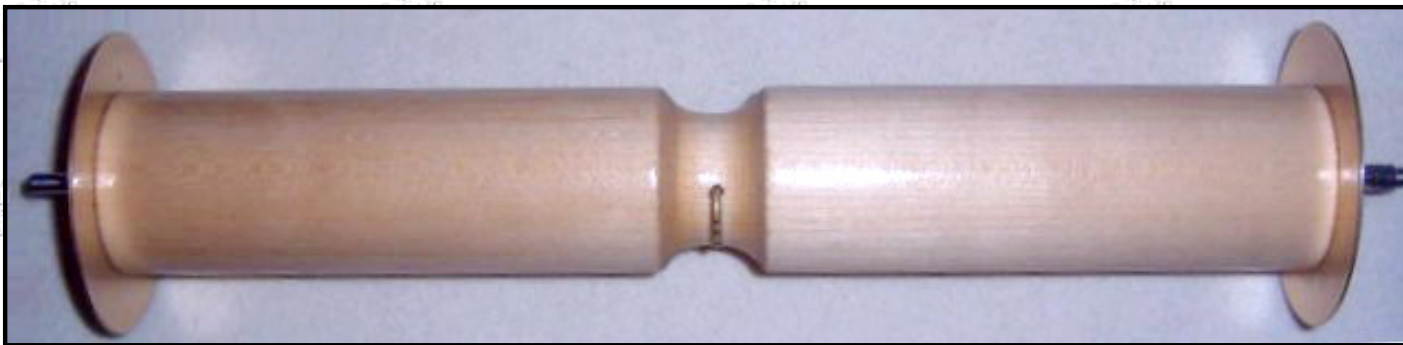
## **Regular 3/8" 'T' Connector**



These brass connectors are used in various locations in player pianos and orchestrions when tapping into an existing vacuum supply line. These are custom-made for Player-Care, and are not available in any other marketplace. The cost per piece is \$13.50. Also available in plastic for \$3.59 ea. Priority Shipping cost is \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

## **Take-Up Spool**





Measures 13" end-to-end and 11-1/2" between the end flanges. Identical in size to the ones in modern players with the Standard Pneumatic Player Action, with an Ampico-style 'positive-release' end tab hook.

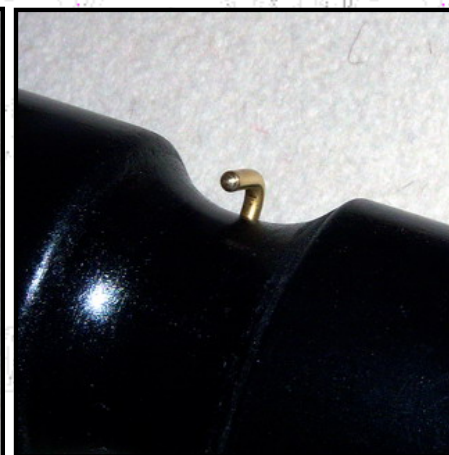
"Take-Up Spools" are now available at Player-Care for \$119.50 each. They have a bass wood core with steel flanges. Custom made for Player-Care in February 2013. No other dealer in America stocks new take-up spools!! Allow one week for delivery. Standard color is Black Core with painted Silver or Gold Flanges (Please Specify When Ordering). Custom colors, including natural wood, available for an additional \$18.00 (allow one week for delivery). The shipping cost is a minimum of \$19.95 to anywhere in the continental U.S. To place your order, [Click Here](#).



Left End



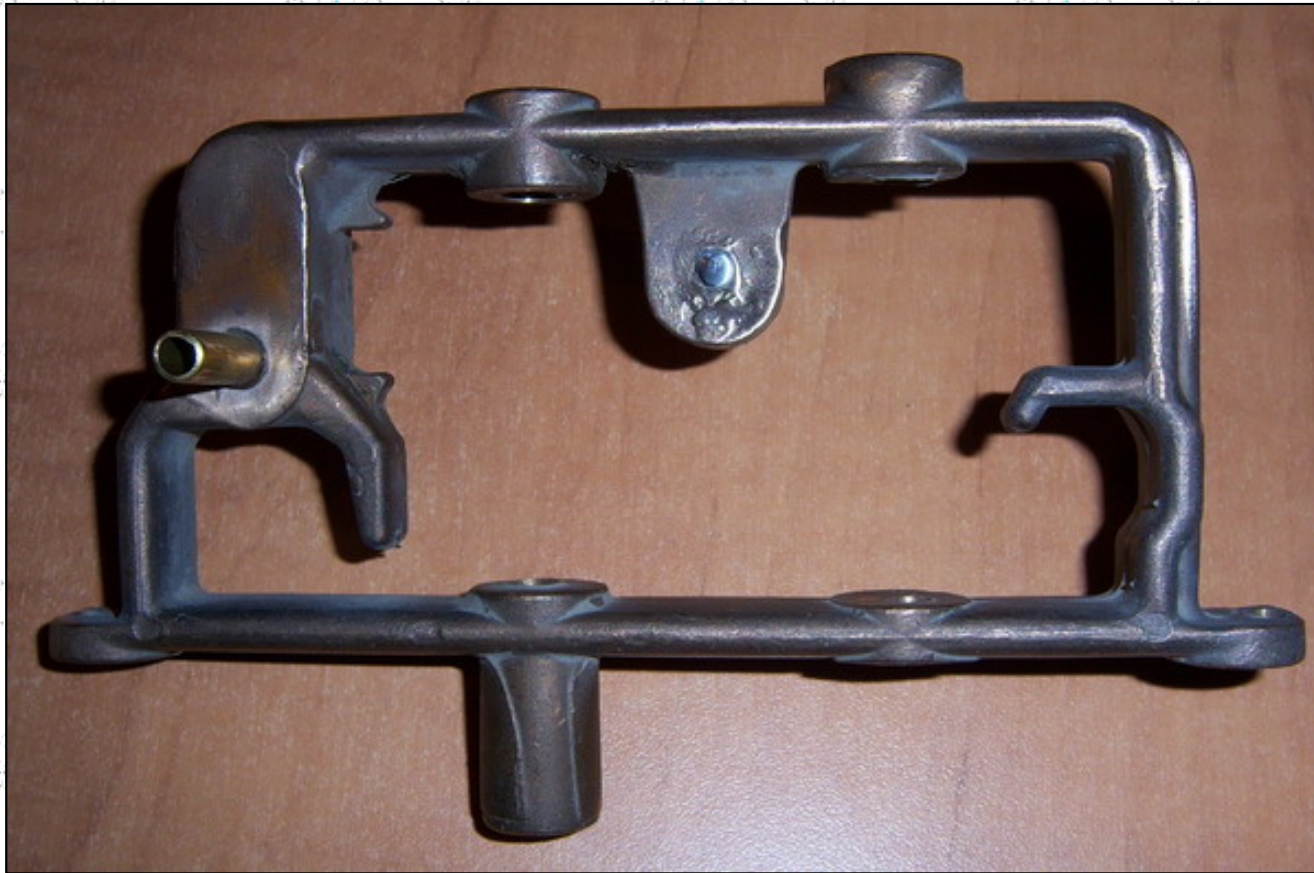
Right End



End Tab Hook



## Ampico Transmission Frame



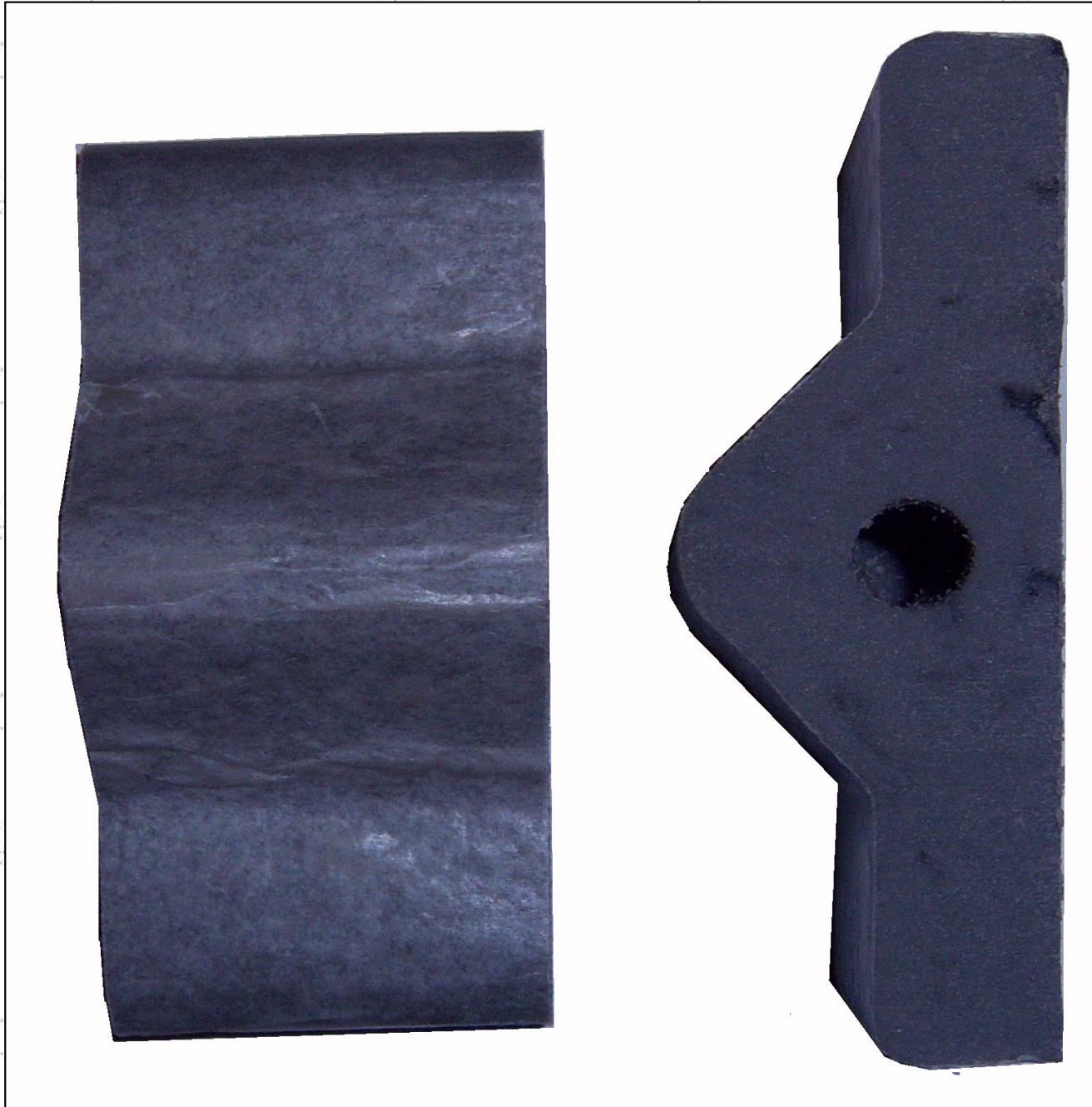


"Ampico Transmission Frames" are now available at Player-Care. This is the frame that is found in every Ampico A reproducing player piano. The frame is made of solid brass and machined by hand. Excellent craftsmanship to exacting specifications. Cost is \$244.50. Shipping charge is \$13.45 within the US and \$34.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

Please be careful when handling the transmission or you will bend it out of alignment. Do not drop. When putting small shaft in, make sure all parts are on shaft, and support transmission on wooden block when driving shaft into small gear. Also, plug the two original transmission mounting screw holes and bore new ones, using the new transmission as a guide, and use 'smaller-than-hole' round head screws to mount it to the spoolbox. (This step is not always necessary.)

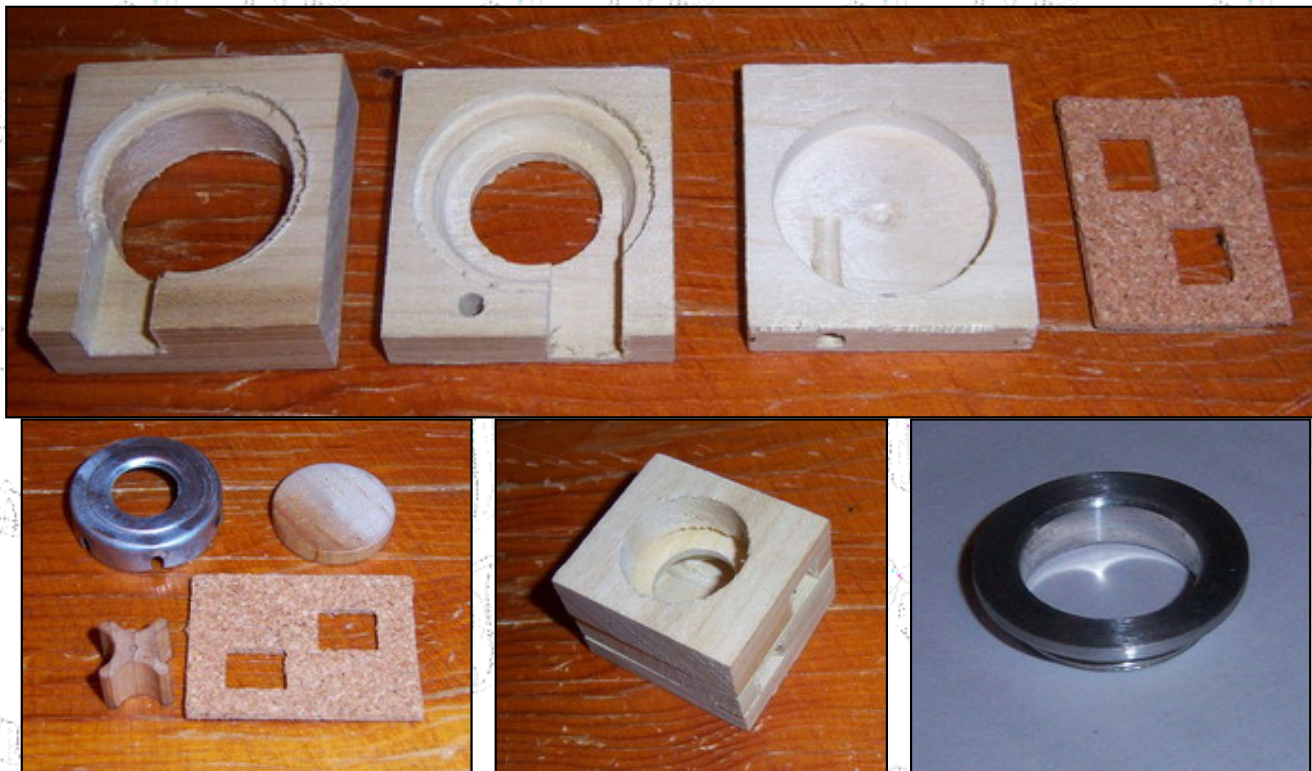


**Ampico Motor Mounts (SEE \*NOTE\*)**



"Ampico Rubber Motor Mounts" are now available at Player-Care. These parts are made from high quality rubber. Specifically made as replacements for the original motor mounts which are often cracking or deteriorated. Only available in sets of four. Cost: \$52.00. \*NOTE\*: Holes for the rods are drilled out, but the holes for the screws are NOT drilled out. (Screws holes are easily drilled out using your bracket as a guide and a standard drill bit and an electric drill.) Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

### Ampico B Block Valves





"Ampico B Block Valve" parts are now available at Player-Care. Manufactured to exacting tolerances, they are identical in every aspect to the original Ampico B block valves. They ARE NOT and WILL NOT be assembled for you. Also, we DO NOT supply the leather for the valve facings, the pouches, or the ball bleed. Cost: \$18.50 each. (Limited Supply) Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. The 1/16" die-cut block valve gaskets are now available for \$0.75 ea. or \$60/90. To place an order, [Click Here](#).

### **Ampico A/B Block Valve Springs**





"Ampico B Block Valve Springs" parts are now available at Player-Care. Made from high quality spring steel. They are identical to the springs found in the Ampico B system. Considered by professionals to be far superior to the solid springs found in the Ampico A system because they apply a more uniform pressure to the wooden block valve. Highly recommended for replacements when rebuilding an Ampico A. Cost: \$1.35 each. Sets of 50 for \$60.00. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

### **Ampico A Pump Spill Valve Spring**



"Ampico A Pump Spill Valve Springs" are now available at Player-Care. Made from high quality spring steel. They are specifically designed and fabricated to replace the often over-stretched springs found in virtually all Ampico A rotary vacuum pumps. After years of testing, it was found that the non-linearity of most Ampico expression systems was directly related to the non-linearity of the pump spring. Cost: \$11.00 each for the "A" springs (two required). The "A" spring can also be used to replace the often over-stretched Ampico "A" crescendo spring. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

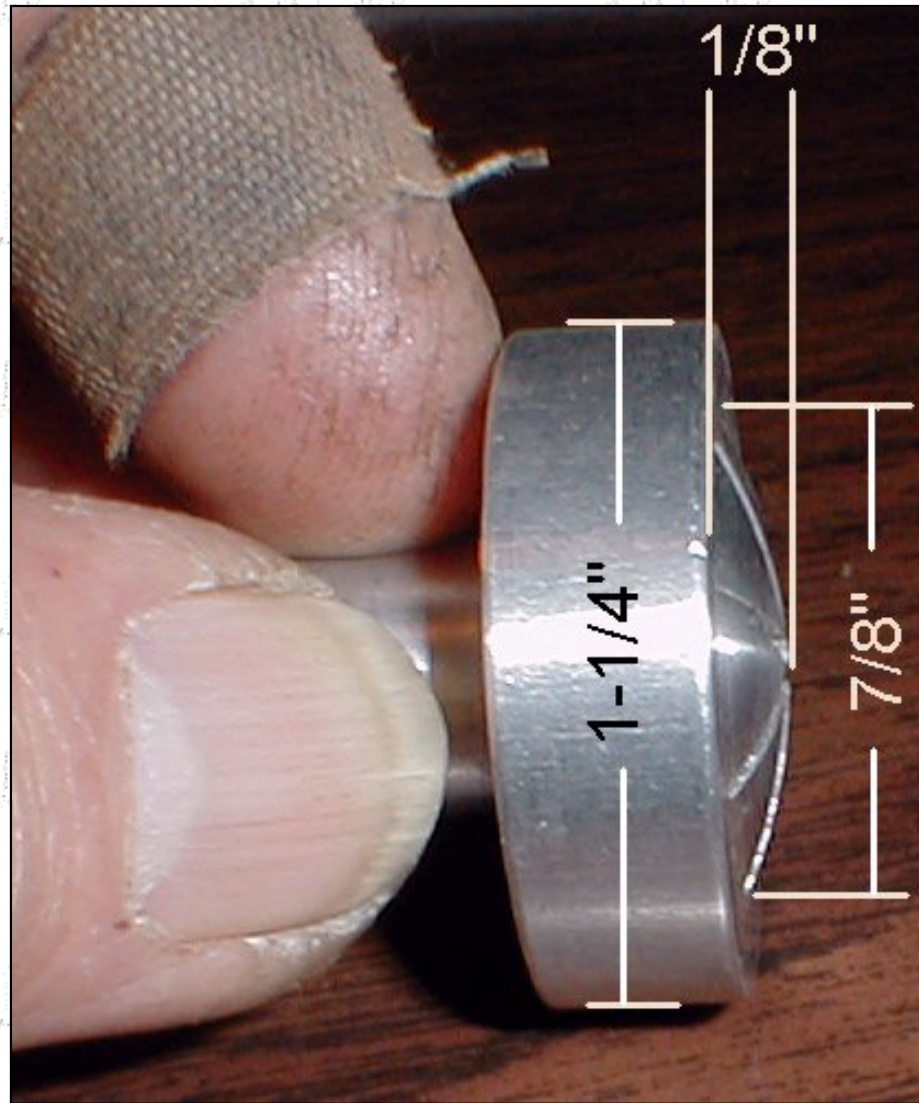
## Automatic Rewind Device



Designed primarily for players that have already been electrified, this device will shift the transmission from Play to Rewind at the end of the music roll. It is triggered into operation by perforations that are located a few inches past the last playing notes, which are common on almost all music rolls. To view the Installation Instructions, [click here](#). The cost is \$172.50, which includes 3 ft of vacuum supply tubing, connecting elbows, trackerbar tubing, and associated mounting hardware. Shipping charge is \$14.95 within the US and \$34.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

To purchase replacement block valves for this device -[click here](#).

## Vacuum-Operated Pouch Setting Tool







For those who want to do the job correctly, this tool is indispensable. This pouch setter will work on a variety of player systems with have from 7/8" to a 1-1/16" pouch well. The high cost is due primarily to the sharp increase in blocks of aluminum, from which these are manufactured, and the labor cost to have them custom made. Cost: \$63.00 each. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

## **Outward Pressure "V" Pedal Return Springs**



Click on Image to see Full Size Picture

These are standard pedal return springs. The larger 8 inch springs have an outward pressure of 12-13 pounds. They are one inch wide at the connected end and  $\frac{7}{16}$  inch wide at the tip. The cost is \$33.00 each. The smaller 6 inch springs have an outward pressure of 8 pounds. They are  $\frac{3}{4}$  inch at the connected end and  $\frac{1}{2}$  inch wide at the tip. The cost is \$42.00 each. High quality spring steel. Unconditionally guaranteed for five years (does not include shipping). Shipping charge is \$13.45 within the US and \$34.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

## **Aeolian (modern) Player Piano Power Cord**



This is a replacement power cord for all of the modern Aeolian players that have a detachable power cord. It is a 10 ft 16 gauge 13 amp cord that is UL Listed and made in America. These cords often get lost when the piano is shipped, and replacements are generally hard-to-find. The cost is \$18.50. Shipping charge is \$7.15 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).



### **Simplex (3-Tier) and WurliTzer Block Valve Gaskets**



These die-cut gaskets are made from 1/16" cork. Cost per piece is \$0.75 or \$65.00/90. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

### **WurliTzer Block Valves w/gasket**

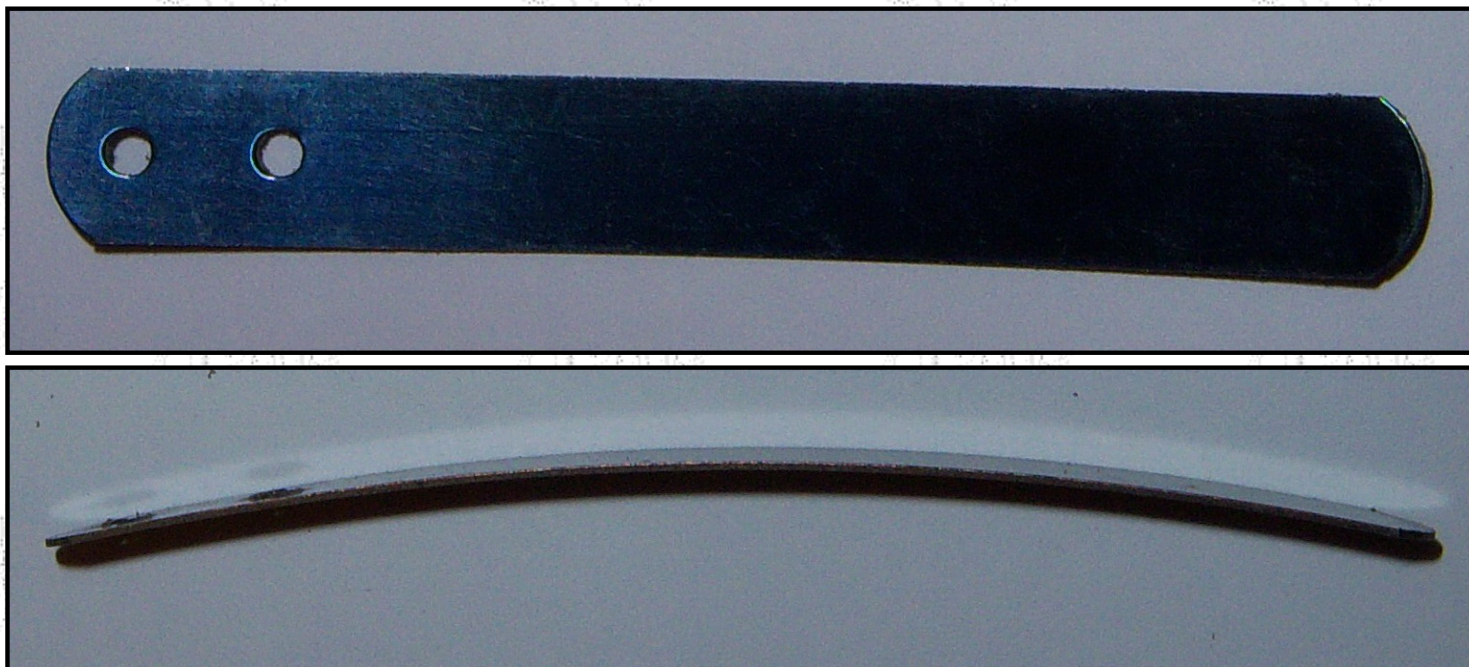






These WurliTzer type block valves are often used in nickelodeon build-ups as well as other [custom-made pneumatic devices](#). Well known for their reliability and longevity, these valve blocks are now available at Player-Care for \$24.85 each or \$245.00/dozen. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

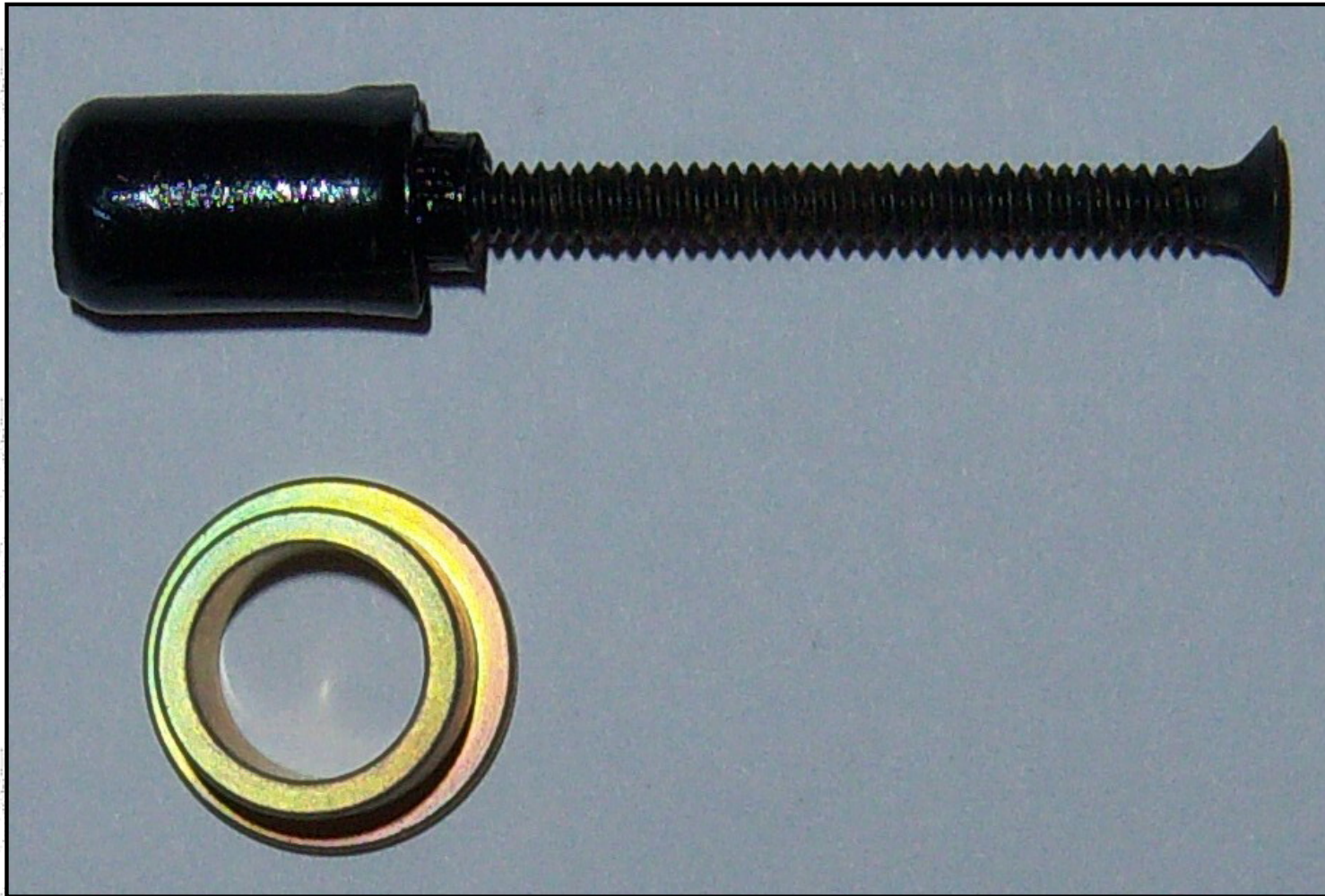
## Flat Pushbutton Springs

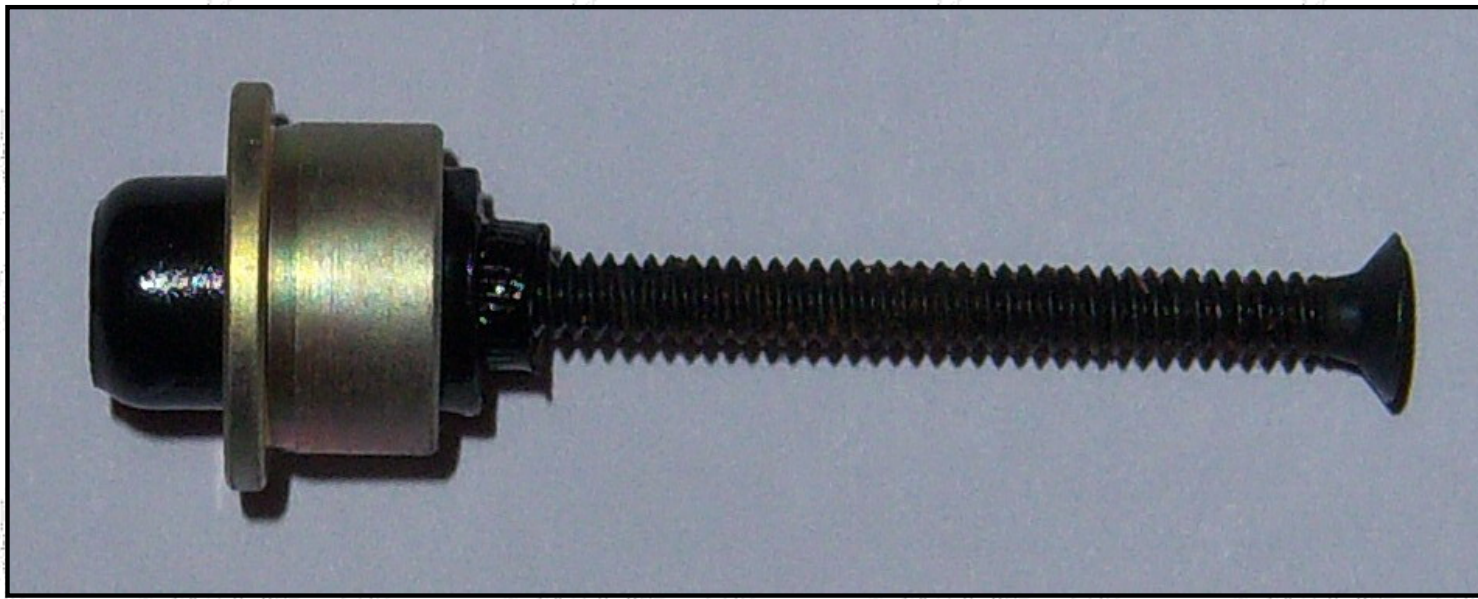


These are the flat spring-steel springs that are found on the pushbutton assembly in many upright player pianos for manual operation of the sustain (or loud pedal) pneumatic, and the bass and treble soft pneumatics. They measure 3-1/2" by 7/16". The cost is \$2.00 per spring. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).



## Pushbutton Assembly for Manual Operations





These are the manual pushbuttons that are found in many upright player pianos for manual operation of the sustain (or loud pedal) pneumatic, and the bass and treble soft pneumatics. The overall length is adjustable from a maximum of 2-1/8" to a minimum of 1-7/8", and the button is slightly less than 3/8" in diameter. The button guide has an ID of 3/8" and an OD of 5/8". Sold only as a two-piece set. The cost is \$7.50 per set. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

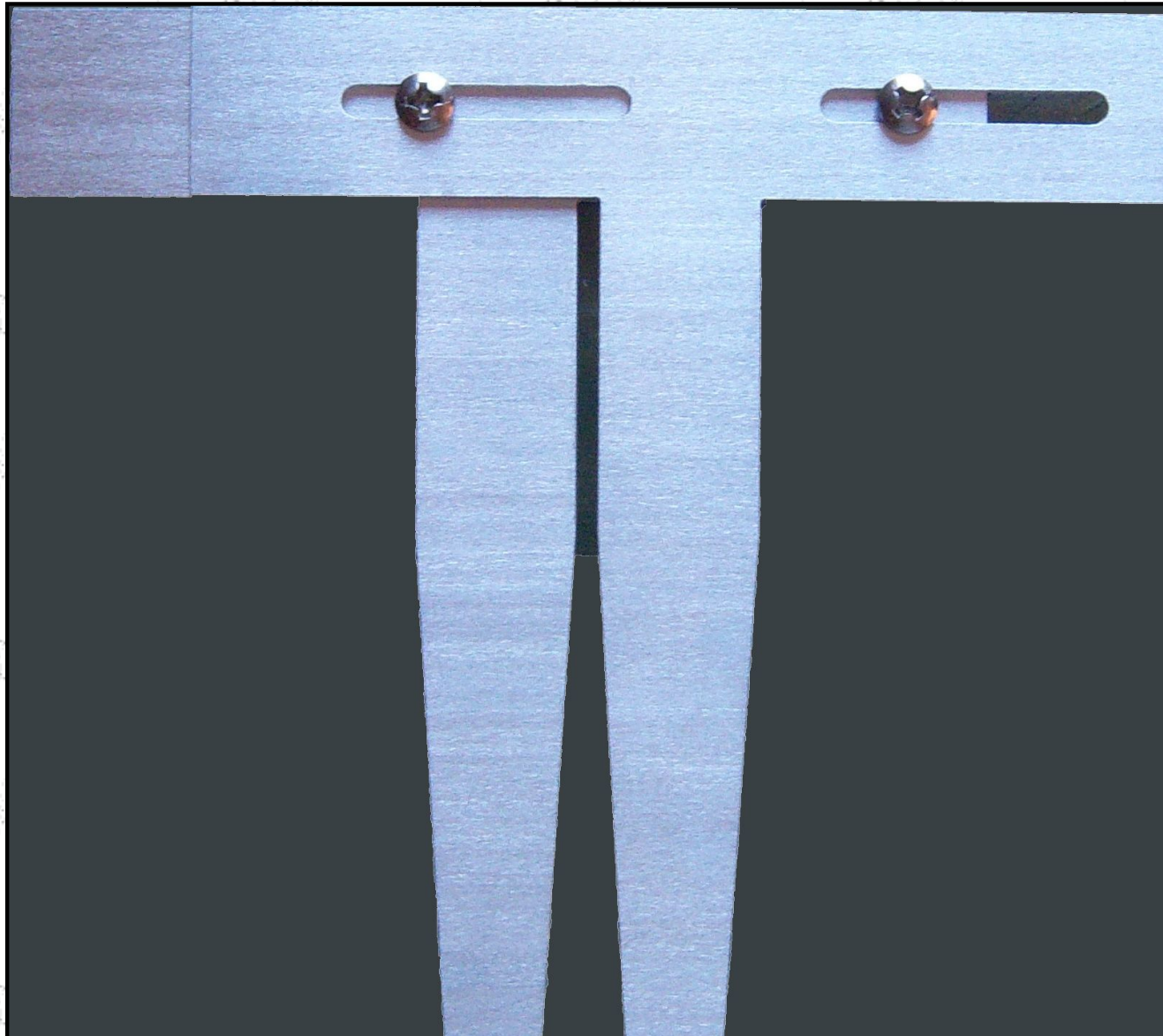
## Fluted Valve Stems



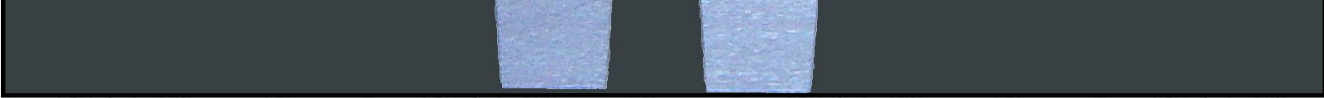


This fluted valve stem stock is available in pieces that are Eight Inches (8") in length at the following prices: 1/2" for \$5.25, 7/16" for \$5.15, 3/8" for \$5.10. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. To place an order, [Click Here](#).

### **Pneumatic Jig for Small Bellows**

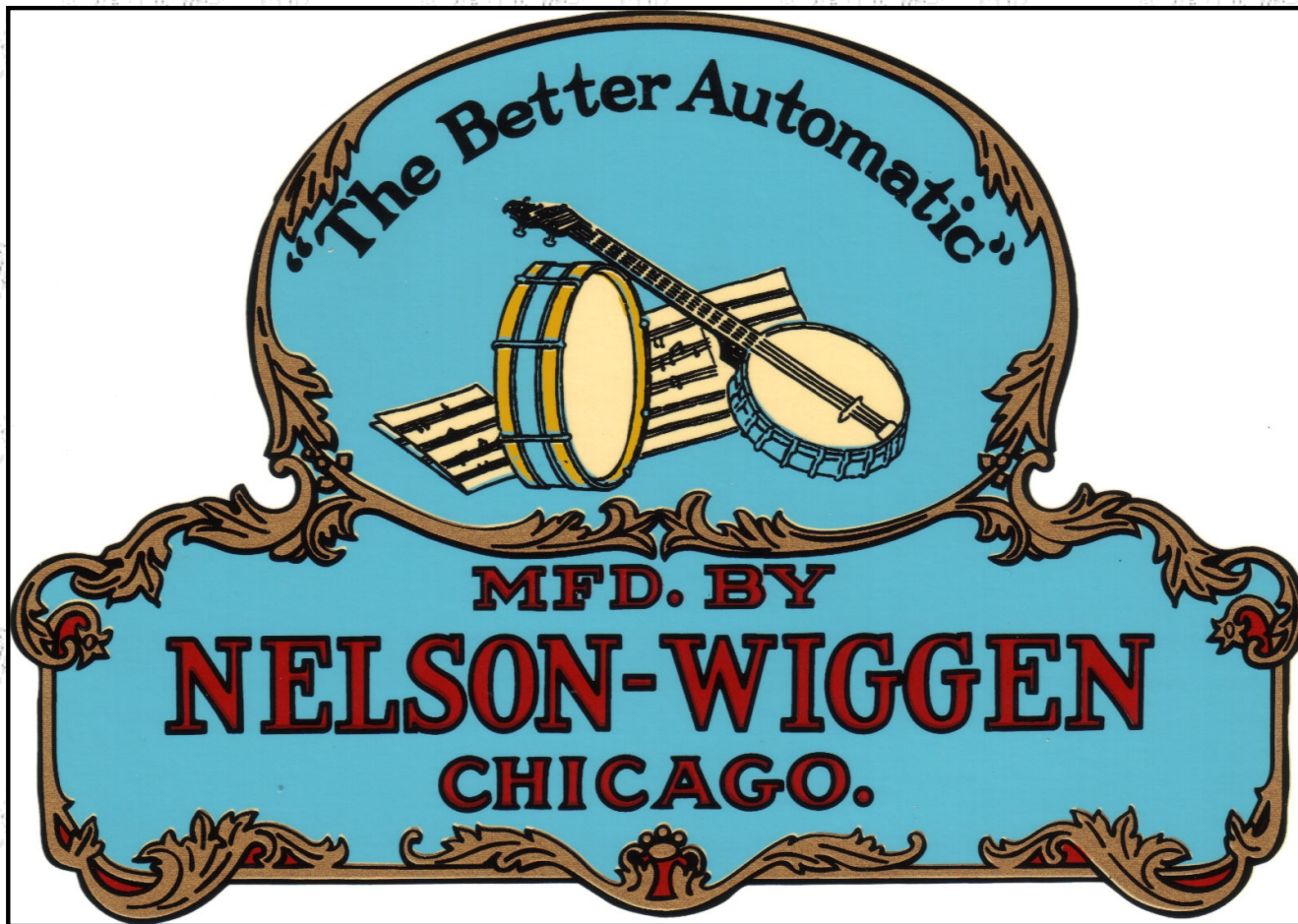






This Pneumatic Jig was originally designed by Durrell Armstrong to aid novices and professionals in the recovering of small bellows, or striker pneumatics. However, over the years it has been noted that it also works quite well for medium sized bellows with a span of up to 2-1/4". This is a common measurement for air motor bellows and some air-motor governor bellows. It is completely adjustable for spans of 1" (one inch) to 2-1/4". Selling elsewhere for over \$35.00, we offer this time-saving jig for \$28.50. For the complete instructions, written by Durrell Armstrong, [click here](#). Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. To place an order, [Click Here](#).

### **Nelson-Wiggen Decal**



In his posting to the Mechanical Music Digest, here's what Don Teach had to say about this decal.

*In my search for a perfect Nelson-Wiggen piano decal, I found one on a beautiful, un-restored, pristine machine in Colorado. I am making this decal. It is very expensive to have just one made so I am having a few extra made should anyone need a Nelson-Wiggen decal.*

*It makes a nice window decal for the rear window of your car also:  
non-political, non-sports, not offensive!*

This is a standard water-transfer decal. Just soak it water and then apply it to any flat surface. The price is \$30.00. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. To place an order, [Click Here](#).

## **Bleed Cups**



These are the standard #388 bleed cups that were sold by Player Piano Co. The bleed hole is a #68 drill size. The cup has a  $\frac{5}{32}$ " body, a  $\frac{13}{64}$ " rim, and a depth of  $\frac{11}{64}$ ". The price is \$1.25 per cup or \$92.00/100. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. To place an order, [Click Here](#).



## **Pedal Webbing for Reed Organs or Hinges**



This is standard pedal webbing used to connect the foot pedals to the exhaustor bellows in a reed organ. It can also be used for hinges in large exhaustor and reservoir bellows. The material is 2 inches wide, 0.056" thick. White: herringbone weave; extra strong; tightly woven. Price per foot is \$3.25. Shipping charge is \$6.95 within the US if the amount ordered fits in a small flat rate box. \$35.30 to most overseas countries. To place an order, [Click Here](#).

## **Plastic 8 oz. Squeeze Bottle**



These 8 oz. plastic squeeze bottles with a tapered tip and a regular cap can be used for many things. However, they work extremely well for using and storing small batches of hot hide glue. For detailed information about "Preparing and Using our Premium Hide Glue crystals -[click here](#). Cost per bottle w/both caps is \$7.55. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. To place an order, [Click Here](#).

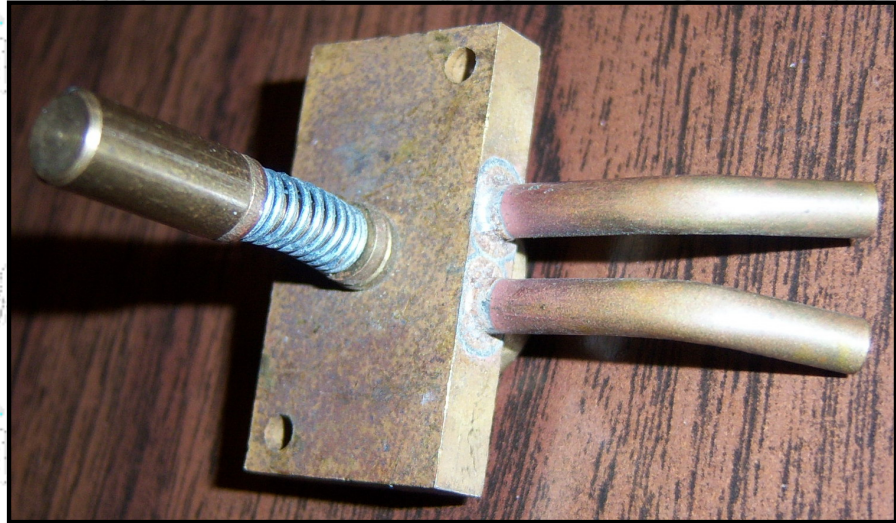
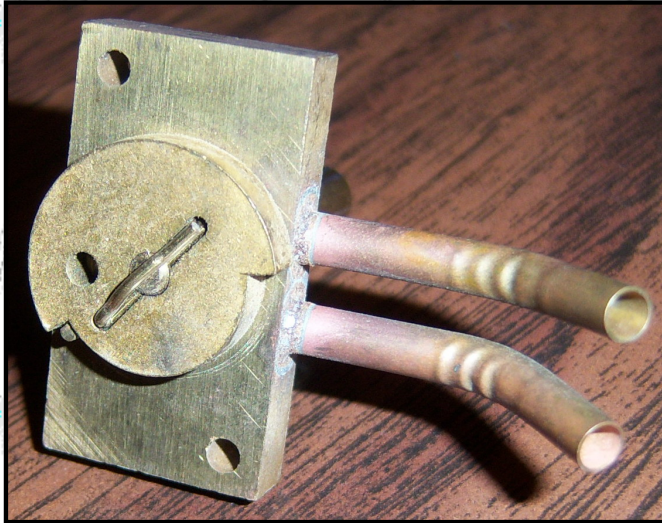
### **Automatic 'Off' / Pushbutton 'On' Device**



This is the Automatic Shut-Off and Pushbutton 'On' Device that's part of the [Full Automation Kit](#). It comes with about 8 ft of line cord, required hardware, and instructions for mounting the unit in the spoolbox. This device can be easily wired into an existing electric vacuum pump system, and replaces the regular on-off switch. Cost is \$110.00 ea. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. To place an order, [Click Here](#).



## Brass Air Switch





These are 3-Position Air Switches used in the Modern Aeolian player piano to control the volume of the music. In the Aeolian, the switch, in the spoolbox, is labeled 'Low-Med-Hi'. In the 'Hi' position, both of the nipples on the switch are Open to the atmosphere. In the 'Low' position, both of the nipples are closed. In the 'Med' position, one nipple is open and one nipple is closed. However, because of the way that the movable part of this switch is manufactured, it can be easily converted to a conventional 'Pass/No-Pass' switch by plugging the hole that allows atmosphere to enter the switch (as seen in the picture in the lower right corner). This is the type of switch that is commonly used for Sustain (or Loud) On-Off, or any feature where a signal needs to be turned 'off' or allowed to 'pass-through' to a device. The switch measures 1-3/8" x 3/4", and the shaft diameter is 1/4". Comes complete as pictured. Cost per switch is \$65.00. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. To place an order, [Click Here](#).

### Cabrette Leather





Cabrette leather for various applications. \$27.50/sq ft. or \$0.30/sq in. Minimum cutting fee per piece is \$1.50. Available thicknesses: 0.040" and 0.055". Example: a 6" x 6" piece will cost \$12.30. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. To place an order, [Click Here](#).

## **Packing Leather**



Packing leather for various applications. \$19.50/sq ft. or \$0.20/sq in. Minimum cutting fee per piece is \$1.50. Thickness: 0.040"-0.045". Example: a 6" x 6" piece will cost \$12.30. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. To place an order, [Click Here](#).



## **Bushing Cloth (Woven Felt)**



High quality bushing felt for various applications. 3" x 8" strip medium weight bushing felt (0.054"): \$5.50, 3" x 8" strip light weight bushing felt (0.043"): \$5.50. Minimum Shipping charge is \$6.95 within the US. \$35.30 to most overseas countries. Specify thickness in Comments Box when ordering. To place an order, [Click Here](#).

## **PianoCorder Tape Deck (PT-100)**









These PianoCorder tape decks have been factory reconditioned and come with the same 90 day guarantee that was offered by the company when they were new. The cost is \$458.00. Minimum Shipping charge is \$28.95 within the US. To place an order, [Click Here](#).

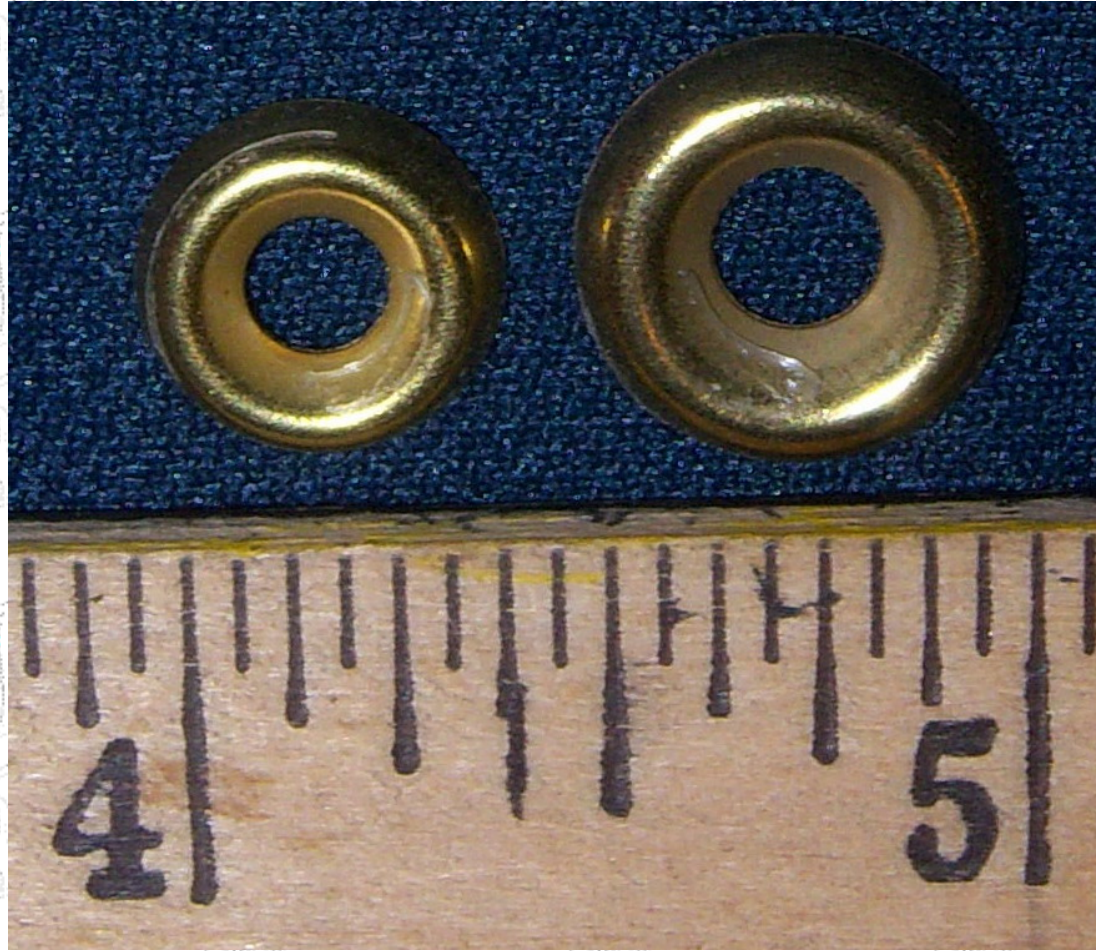
### **Pinion Gear for Standard Transmission**



Pinion Gear (#691). 12 tooth.  $\frac{13}{64}$ " center hole. This is the small gear that projects through the side of the spool box and drives the large gear that's attached to the take-up spool. The old gear may be removed by: clamping the shaft in a vise, heating with a butane or propane torch until red hot. Comes off easily with pliers. Tap on the new gear so that it is just started on the shaft; heat the new gear until red hot (when heated, it expands to a larger ID than the shaft) and tap it in place while it's still hot. When it cools, shrinkage will make it very tight. (Never ream out the hole or use solder: The preceding is the only correct way to replace the gear.) The cost is \$19.50. Shipping charge is \$6.95 within the US. To place an order, [Click Here](#).



## **Brass Plated Countersunk Washers**



These brass plated countersunk washers are available in three sizes: #6, #8, and #10. The #6 washers are \$0.10 each, the #8 washers are \$0.12 each, and the #10 are \$0.15 each. So, it's only advisable to order these when you're ordering other items. Minimum Shipping charge is \$6.95 within the US. To place an order, [Click Here](#).

## Hypodermic Syringe for Grease



These small hypodermic syringes are good for those times when you want to apply a very small amount of grease to a specific spot. They do not, repeat, do not come with a needle. The cost is \$4.50. So, it's only advisable to order these when you're ordering other items. Minimum Shipping charge is \$6.95 within the US. To place an order, [Click Here](#).



## End Tabs and D-Rings



Each high quality self-adhesive vinyl tab comes with a brass 'D' ring. There are twelve (12) tabs per sheet and each sheet comes with a dozen rings. Tabs and rings are NOT sold separately. Each set (one sheet w/12 tabs and 12 rings) costs \$5.00. Minimum shipping charge is \$6.95 within the US (Priority Flat Rate envelope). To place an order, [Click Here](#).



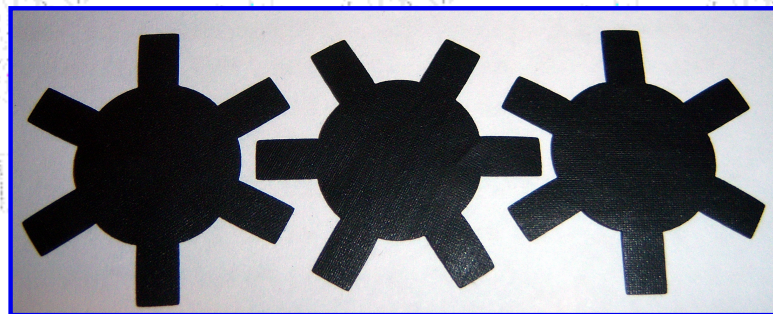
## Valve Gapping Tool





This simple but effective tool makes setting the gap (or valve travel) to an efficient 0.035" very easy. It can be inserted and withdrawn through a 7/16" or larger diameter hole in the valve cap. Cost is \$9.50. Shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

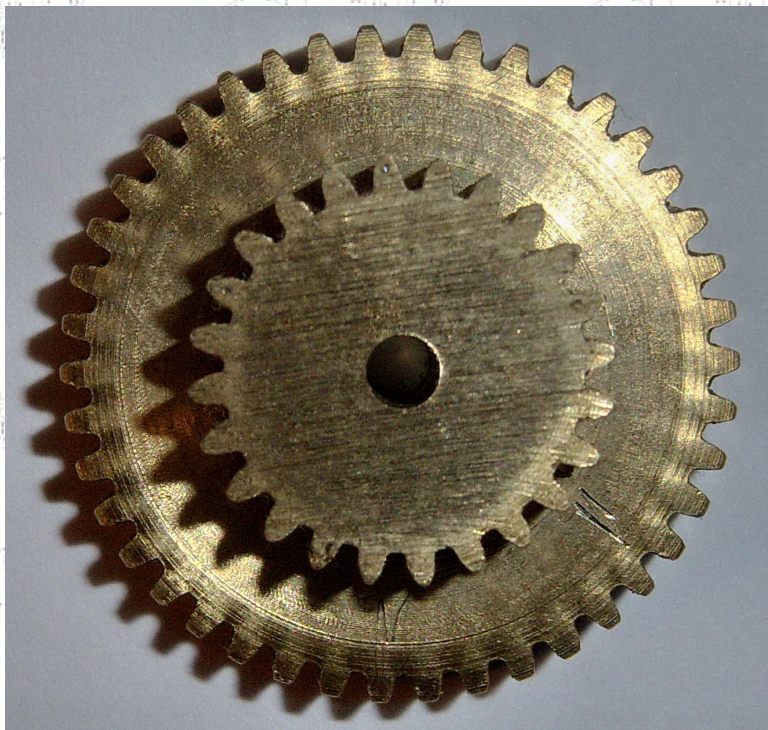
## **Lauter-Humana Intake Valve Facing**



These are intake valve facings for the Lauter-Humana player piano. They are made out of a special pneumatic cloth that is 0.0065" thick which is very accurately cut with a laser. Cost per facing is \$0.50 or \$45.00 for a set of 90. Information about rebuilding the block valves is located [here](#). Shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

## **Kimball E/F Transmission Gear**

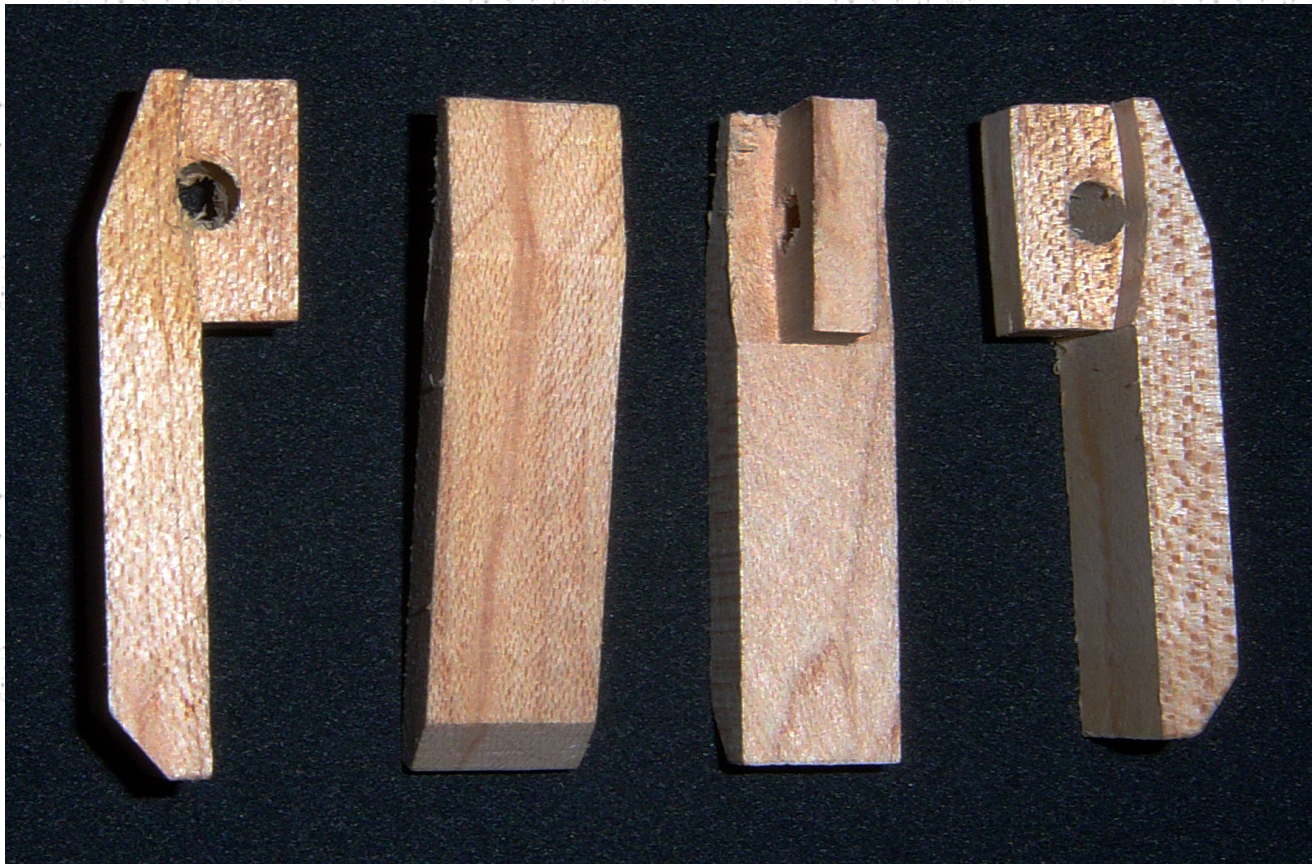






This is the replacement gear for the plastic gear in the Kimball Electromatic Model E and F Transmission. The new gear is made out of brass. There are 42 teeth on the outside gear and 24 teeth on the inside gear. The cost is \$90.00. (Limit one per customer.) Some information about replacing the transmission is located [here](#) (page is not completed yet). Shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#). Also, we will install the gear for an additional \$50.00. The six nuts, bolts, and lock washers are available for an additional \$8.00. Contact [John Tuttle](#).

### **#1860 Pneumatic Fingers (wooden)**



These are wooden pneumatic fingers for note bellows. Made out of hard rock maple. Measuring 1-1/2" L x 3/8" W x 7/16" H. The size of the hole is 1/8". Does not include the [bushing felt](#) for wire rod. This type of pneumatic finger is most commonly found in Ampico and Amphion actions. Cost 1-9 ea. \$0.85, 10 or more, ea. \$0.72. Shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

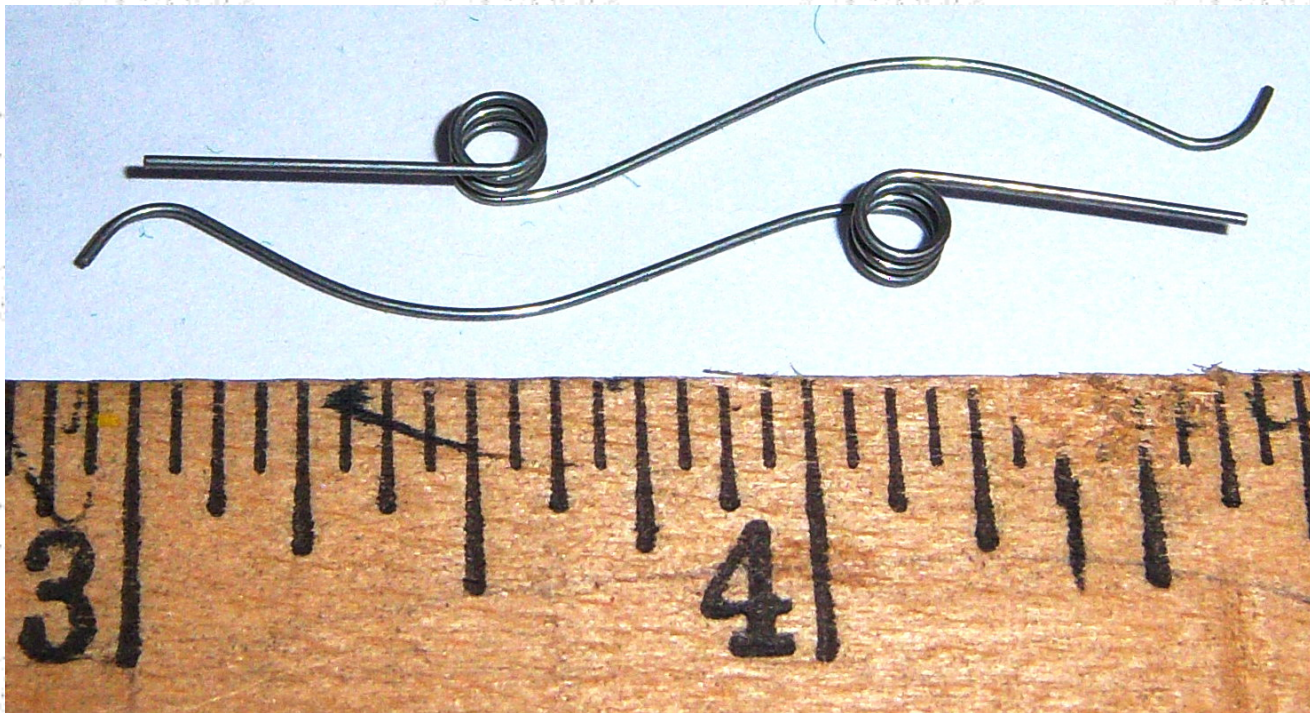
### **#1859 Primary Valve Buttons**



These are wooden primary valve buttons. Made out of hard rock maple. Measuring 1/2" O.D. by 5/16" tall, with a 9/64" center hole. These valve buttons are used in a number of actions and devices. Occasionally they will break during disassembly. Cost is \$1.25 each. Shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

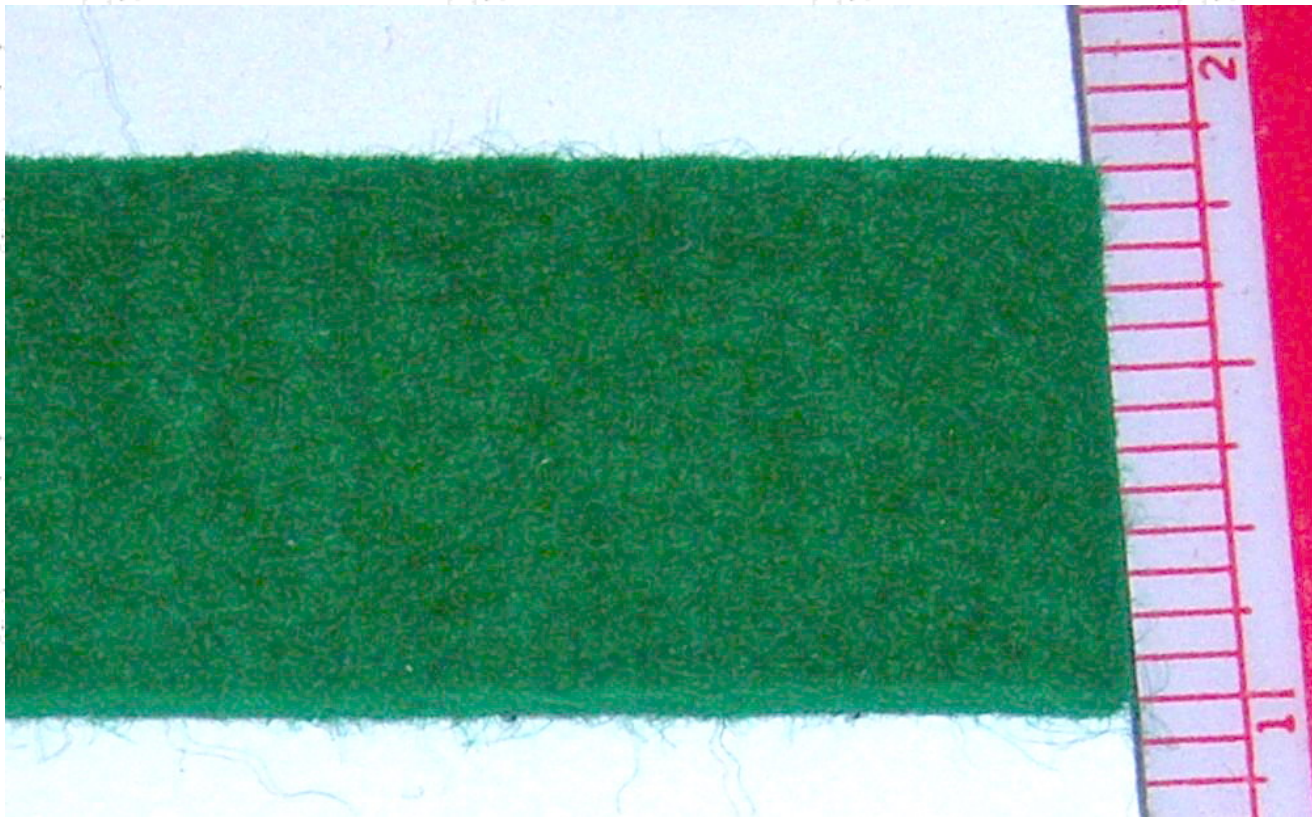
### **Aeolian (modern) Hammer Return Springs**





One of the more common problems with the modern Aeolian line of player pianos involves the hammer return springs. These springs break indiscriminately. While no one knows for certain why they break, most agree that it's because of either metal fatigue or corrosion (due to the felt under the coil). Making matters worse, these springs are not readily available because they are much shorter than regular hammer return springs. Cost is \$0.35 each, \$3.12/dozen, or \$16.00/100. Minimum shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

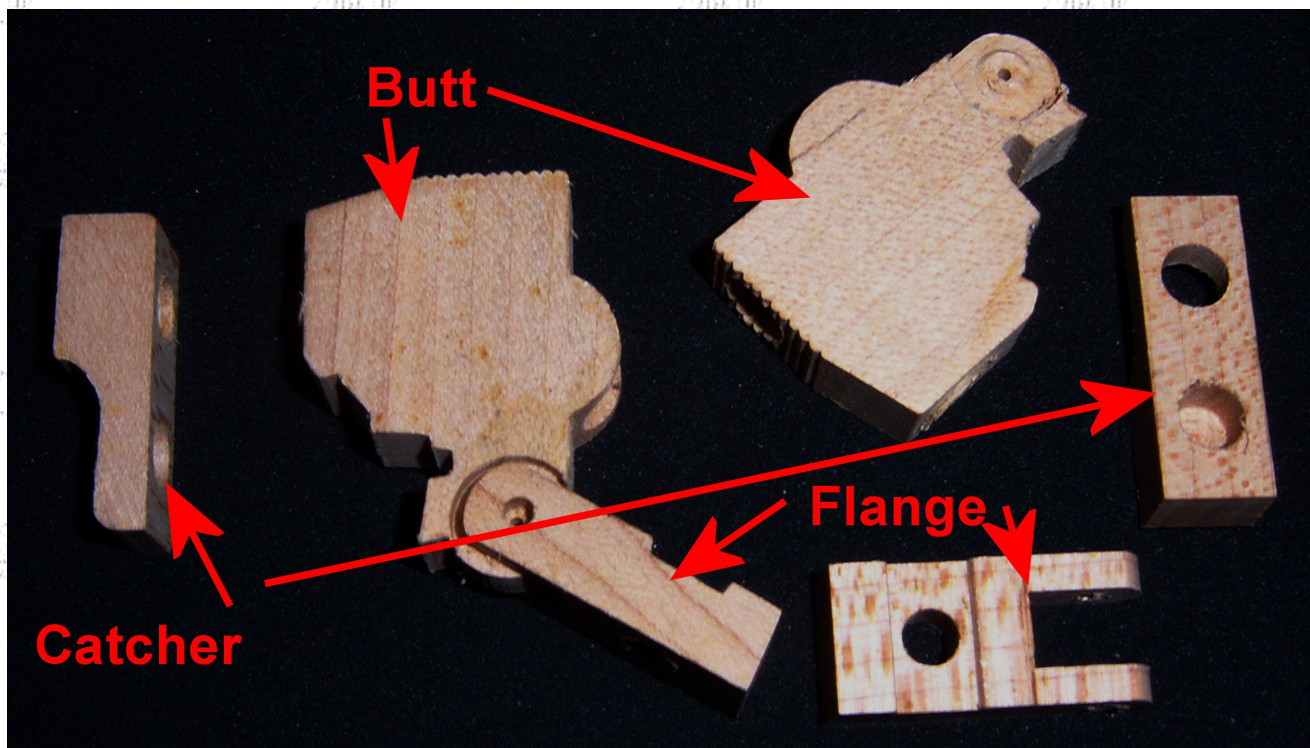
### **Spring Rail Felt**



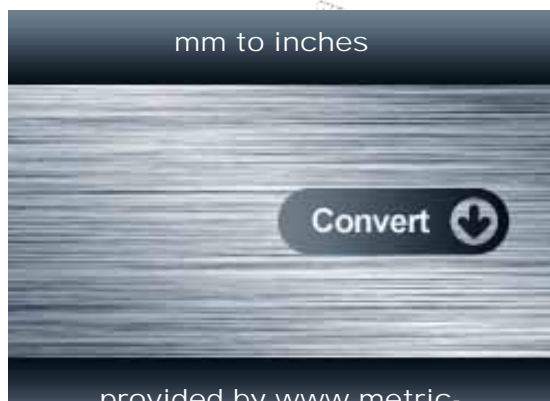
This is standard spring rail felt that's found in virtually all upright pianos. The strips measure  $\frac{13}{16}$ " wide,  $\frac{1}{8}$ " thick, and 52" long. Cost is \$6.30 per strip. Also available in shorter lengths for \$2.00/foot. Minimum shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).

## **Butts, Flanges, and Catchers**





These are standard upright butts, flanges, and catchers. They are only available as seen in this picture, i.e., without the soft materials. The butts are \$1.50 each. The flanges are \$0.75 each. The catchers are \$0.75 each. We do not offer the materials needed to turn these into viable piano parts. Minimum shipping charge is \$6.95 within the US (Priority Small Flat Rate box). To place an order, [Click Here](#).



## Additional Business Information

All Orders MUST BE Paid in Full before they are shipped. Have a question? Call 732-840-8787 (8AM-8PM EST Mon-Sat) or send an E-Mail to: [John A Tuttle](#). Please Allow 2-3 Weeks for Special Orders.

As a general rule, orders received before 2PM EST will be processed and shipped out on the same day. Orders received after 2PM will go out the next day. If I have a problem with your order, I will contact you via E-Mail (or by Phone) and ask for clarification or a confirmation. .

### How can I pay for the order?

At the present time, we are accepting payment by [credit cards](#), personal check, or money order.

To pay by check or money order, make payable to:

John A. Tuttle  
407 19th Ave  
Brick, NJ  
08724-2605

### How much is the shipping?

The cost of shipping varies with the size of the order and the final destination but I only charge what you would pay if you used USPS Flat Rate services and took the parcel to the post office yourself. Prices quoted within this page are only valid within the contiguous 48 United States of America, Alaska, and Hawaii. For a more detailed explanation of the shipping charge -[click here](#)-. [Click Here to send me an E-mail](#). Unless otherwise requested, all orders are sent by USPS Priority Mail/w Delivery Confirmation (US destinations).



## What about Defective or Returned Goods?

If merchandise is defective, I will refund your money plus the shipping costs related to that item.

If you purchased the wrong product, it can be returned within 90 days for a refund or credit minus a 15% re-stocking fee. Also, you will not be reimbursed for the cost of return shipping. Items that are cut to a specific size/length are not returnable unless the size is deemed common or average. Examples: One foot of cloth is a normal width. Six inches of tubing is NOT returnable. Small items cut to your specifications are NOT returnable.



[..To Top of the Page](#)

The difference between Phenoseal and PVC-E is that PVC-E is thicker and it has more solids. Phenoseal is thinner and has additives for faster evaporation.



[Return to the Player-Care Home Page](#)

***This page was last revised on Jan 19, 2016 by [John A. Tuttle](#).***

Although I prefer that you send [E-Mail](#), if you have a non-order related question, you can reach me at 732-840-8787. If I'm in the Shop or at Home, I will answer the phone. Otherwise, please leave a message.

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As per the Fair Credit Billing Act, your bank cannot hold you liable for more than \$50.00 of fraudulent credit card charges. PLAYER-CARE will pay the \$50.00 if the unauthorized use of your card resulted from a purchase made through our site. We are so confident of the security measures we've put in place, we'll also pay you an additional \$25.00 just for the inconvenience!

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# John Tuttle's **PLAYER-CARE**

*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



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## Drop-Down Menus

**Player-Care**: Dedicated to the player piano and to fulfilling the needs of every player piano and reproducing piano owner. We stock specialized parts for various makes of player pianos and rebuilding supplies like bellows cloth and player piano tubing. We list over 200 Player Piano Technicians in the U.S. and abroad who service and rebuild player pianos. We provide a listing of over 950 Player Piano Makers, Roll Makers, Parts Makers, Organizations/Businesses/Links, Other Suppliers, and offer hundreds of free Technical Articles about Testing, Servicing, Repairing, and Rebuilding your player piano.

**Player-Care** survives by selling Reference Materials, Parts and Supplies, and Technical Advice. Also, for a small fee, we will help you find that missing or broken part that you can't find anywhere else. Can't find something? Use the [Search Feature](#).

**Player-Care** now has a CD Version of Craig Brougner's fine reference book, the 'Orchestron Builder's Manual and Pneumatics Handbook'. And, his fine Technical Articles are a "must read".

## Using a Drop-Down Menu

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Opening an 88-note Upright Player Piano (by John A Tuttle from Player-Care.com)



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[Technical CDs and DVDs - Click Here.](#)

[Used Player Piano Parts - Click Here.](#)

May 19, 2016 : Over the past year we have expanded our inventory of parts and supplies, and we will continue to grow as we find people to make more new parts. If you know of a relatively common part that we don't stock, please bring it to our attention - [click here](#). Musically, John A Tuttle . **"Keep The Music Rolling".**

#### Weekly Bible Verses (KJV) - "What God Wants"

Joh:4:19: The woman saith unto him, Sir, I perceive that thou art a prophet.

Joh:4:20: Our fathers worshipped in this mountain; and ye say, that in Jerusalem is the place where men ought to worship.

Joh:4:21: Jesus saith unto her, **Woman, believe me, the hour cometh, when ye shall neither in this mountain, nor yet at Jerusalem, worship the Father.**

Joh:4:22: **Ye worship ye know not what: we know what we worship: for salvation is of the Jews.**

Joh:4:23: **But the hour cometh, and now is, when the true worshippers shall worship the Father in spirit and in truth: for the Father seeketh such to worship him.**

Joh:4:24: **God is a Spirit: and they that worship him must worship him in spirit and in truth.**

Joh:4:25: The woman saith unto him, I know that Messias cometh, which is called Christ: when he is come, he will tell us all things. Joh:4:26: Jesus saith unto her, **I that speak unto thee am he.**

["What I Believe Is True" \(The Basics\)](#)





Check Out The -SOFI- Page  
Click on the Image

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Current Information from noted author Craig Brougher - [Click Here!!](#)

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John Tuttle's **PLAYER-CARE**

*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



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Player Technicians Listing - [\(click\)](#) Player Piano Makers - [\(click\)](#) Player Piano Roll Makers - [\(click\)](#)

**Service Manuals & Technical Reprints - [Click Here!](#)**

## ***Player Piano Tubing*** **(Updated May 16, 2016)**

**Service Manuals & Technical Literature - [Click Here!](#)**

The complete list of available Player Piano Tubing. Sizes from 9/64" I.D. to 1/2" I.D. can be purchased in lengths as short as Two Feet (2 ft.) or as great as 50 Feet (50 ft.) in one-foot increments. Sizes from 5/8" I.D. to 1-1/2" can be purchased in lengths as short as One Foot (1 ft.) or as long as Eight Feet (8 ft.) in six-inch increments.

***Special Note: As of November 13, 2012, All tubing from 7/8" ID to 1-1/2" ID has been replaced with Twill Covered Tubing, which is markedly superior.***

- 1) The minimum length we'll cut on any size tubing is One Foot (1 ft.) increments.
- 2) All of the tubing is made from natural rubber, and some is twill covered.
- 3) All orders must be paid in full before the goods will be shipped.
- 4) The I.D. (inside diameter) of all tubing is specifically made slightly undersized, so it will fit properly. You need not order the next smaller size.
- 5) Twill covered tubing is now available. Prices listed below.
- 6) Shipping: Minimum \$6.95 per Order. (USPS Priority mail w/Delivery Confirmation)
- 7) All incomplete requests or orders will be discarded.
- 8) Once the tubing is cut, it cannot be returned for credit or refund.

**SPECIAL! As of Nov 15, 2014 and While It Lasts -** Having closed my service/repair business, I have a collection of short pieces of tubing that were for use 'on-the-job'. If you order \$20.00 or more of any size/s of tubing and you also need a short length of ANY size/s, AND, if I have a short piece available that is at least that long, I will sell it to you at **HALF PRICE!!** For example, if you order 50 ft of trackerbar tubing and you also need a six inch (6") piece of one inch (1") twill tubing, I'll sell it to you at half price if I have a piece, that's at least that long, in my collection of small pieces. All that said, you **MUST** specify that you'll accept the "like new" piece.

### **Tubing Sizes and Pricing**

How much tubing for the trackerbar? - [Click Here!](#)

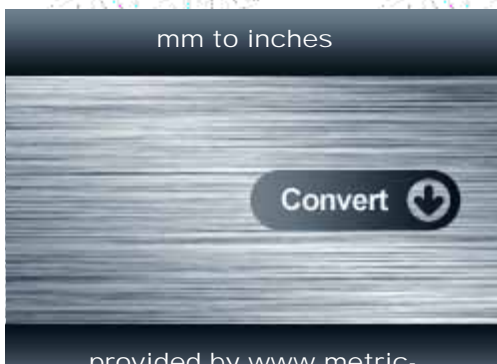
Removing lead trackerbar tubing. - [Click Here!](#)

NOTE: For those who use millimeters, there is a [converter](#) below this listing.

Stock Number	Tubing Color	Inside Diameter	Wall Thickness	Price per ft. 01-10 ft.	Price per ft. 11-99 ft.	NOTES
No.3	black	9/64"	5/128"	0.50	0.45	Regular
No.3A	black	9/64"	1/32"	0.68	0.63	Thin
No.3B	black	9/64"	3/64"	0.59	0.53	Thick
No.5	black	3/16"	3/64"	0.71	0.65	
No.6	black	7/32"	1/16"	0.98	0.83	
No.8	black	1/4"	1/16"	0.83	0.77	<a href="#">See NOTE 1</a>
No.10	black	5/16"	1/16"	1.42	1.28	10 ft pieces
No.11	black	3/8"	3/32"	1.65	1.51	
No.13	black	7/16"	1/16"	2.95	2.66	
No.14	black	1/2"	1/16"	3.54	3.25	<a href="#">See NOTE 2</a>
No.17T	twill	5/8"	1/8"	18.84	10% Off	
No.18	black	11/16"	1/8"	4.15	10% Off	
No.18T	black	11/16"	1/8"	18.90	10% Off	
No.19T	twill	3/4"	1/8"	21.34	10% Off	
No.205T	twill	7/8"	5/32"	22.17	10% Off	
No.206T	twill	1"	5/32"	22.87	10% Off	
No.207T	twill	1-1/16"	5/32"	23.31	10% Off	
No.208T	twill	1-1/8"	5/32"	25.58	10% Off	
No.210T	twill	1-1/4"	17/128"	25.91	10% off	
No.212T	twill	1-1/2"	3/16"	27.37	10% off	

**NOTE 1: Only 0.0005" under 1/4". May require glue for an air-tight fit.**

**NOTE 2: Durometer: 60, Neoprene tubing, I.D. 0.489", slightly stiffer than 1/2" rubber tubing, but not as stiff as 1/2" twill tubing.**





To place a Credit Card Order order, use the [Secure Order Form - Click Here](#).  
Or, place your list in an envelope with your check and shipping address.  
Make check or money order payable and remit to:

John A. Tuttle  
407 19th Ave.  
Brick, NJ  
08724-2605

Upon receipt of your check, the order will be processed. Orders normally arrive within 7-10 days. Credit Card orders will only be accepted if the total order exceeds \$15.00 in merchandise. Don't Like To Order Online?.... Call 1-732-840-8787.

To determine how much tubing is required to tube the trackerbar, use the formula:  $(S + L) \times 44 = T$ , where S is the shortest length (from the trackerbar to the stack), L is the longest length (from the trackerbar to the stack) and T equals the total length of tubing you will require to tube the trackerbar. The formula below was contributed to Player-Care by Jack Breen.

$$X = \left(\frac{a+b}{2}\right)N$$

The result, "X", is the same as the result "T" in the first formula if you have an 88-note stack. However, if you have anything less than 88 notes, the first formula will not work correctly. In the second formula "a" equals the shortest tube, and "b" equals the longest tube. "N" equals the number of notes in the stack, and "X" equals the total amount of tubing required to tube the trackerbar. Finally, be advised that having a little extra trackerbar tubing is a good thing because there are usually other devices in the system that use the same size tubing.

Questions? Write to Me! ([John A Tuttle](#))

[\[HOME PAGE\]](#)[\[SUPPLIES\]](#)[\[USED ROLLS\]](#)[\[TECHNICAL\]](#)[\[PICK-A-PAGE\]](#)

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*This page was last revised on May 16, 2016 by John A. Tuttle ([John A Tuttle](#)).*

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## *Books on Mechanical Musical Instruments*



[Reprints of Technical Manuals -- Click Here!](#)

**Player-Care is providing this information as a service. Books that have links are available immediately. Looking for something else? Try the [Search Feature!!](#) (below)**

AMPICO A & B Collection - [Click Here!](#), \$68.00 plus \$6.95 S/H. The complete collection of information about the Ampico A & B Reproducing Piano Action.

Duo-Art Collection - [Click Here!](#), \$53.00 plus \$6.95 S/H. The complete collection of information about the Duo-Art Reproducing Piano Action.

Rebuilding the Player Piano, by Larry Givens, Vestal Press, 1963. Very good for beginners as well as professionals.  
"OUT OF PRINT"

Encyclopedia of Automatic Musical Instruments, by Q. David Bowers, Vestal Press, 1972, ISBN 0-911572-08-2. Excellent Reference/w hundreds of photographs. Price: \$89.95

Piano Servicing, Tuning, and Rebuilding Second Edition, Arthur A. Reblitz, Price: \$29.95  
Paperback, 2nd ed., 340pp. ISBN: 1879511037 Publisher: Madison Books, Incorporated Pub. Date:  
December 1994 Edition Desc: 2nd ed

Also very good for beginners as well as professionals  
Available at: [qrsmusic.com](http://qrsmusic.com) (1-800-247-6557) stock number BKS-7

[Player Piano Servicing and Rebuilding](#), by Art Reblitz. Price \$37.25 plus \$6.95 S/H.

Paperback, 216pp., ISBN: 0911572406, Publisher: Vestal Press, Pub. Date: 1985

Another must for beginners and professionals

*The Golden Age of Automatic Musical Instruments*, by Art Reblitz is available by mail order only from the publisher, Mechanical Music Press. This major work includes the history of automatic instruments, technical information, collecting stories, tracker scales and key frame layouts in 158,000 words and hundreds of beautiful color pictures. For more information, go to: [www.mechanicalmusicpress.com](http://www.mechanicalmusicpress.com). This major work includes:

-- 250 color photos of restored instruments, inside and out -- a substantial text packed full of historical and technical information -- descriptions of instruments from a musical point of view, explaining what makes each one unique and interesting -- an illustrated tour of famous public collections from 1927 to the present -- valuable tips for new collectors

Hardcover, 436pp., ISBN: 0-9705951-0-7 Publisher: Mechanical Music Press Pub. Date: Oct 2001

The American Reed Organ, by Robert F. Gellerman, Vestal Press.

Pierce Piano Atlas, by Bob Pierce, 1880 Termino, Long Beach, CA 90815

Price: \$28.95, Available: Ships 1-2 weeks, Format: Paperback, 10th ed., 448pp., ISBN: 0911138021, Pub.

Date: January 1997

Official Price Guide to Musical Collectibles, by House of Collectibles, New York, NY 10022

OUT OF PRINT

The Complete Piano Player: Omnibus Edition (5 Volumes in 1), by Kenneth Baker, Price: \$17.56, Paperback, 240pp., ISBN: 0825624398, Publisher: Music Sales Corporation, Pub. Date: March 1991,

The Piano: The Complete Illustrated Guide to the World's Most Popular Musical Instrument, by Jeremy Siepmann, Price: \$17.95, Format: Paperback, 192pp., ISBN: 0793599768, Publisher: Hal Leonard Pub., Pub. Date: November 1998

This 192-page book is oversize and in color. It features not only sections on piano technology, past and present, but a section on all the famous pianists of this century, many of whom recorded piano rolls. There is also a 4-page section on the player piano with photographs of roll making.

Player Piano, by Kurt Vonnegut, Price: \$10.75, Format: Paperback, 340pp., ISBN: 0385333781, Publisher: Random House, Incorporated, Pub. Date: February 1999, A Reader's Catalog Selection The 40,000+ best books in print.

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***This list is simply a starting point; I need more input from the technicians. If you know of a good book on the subject, please bring it to my attention. Some of the books listed above are available through Player-Care. [Click on this link to visit the Reprints and Technical Manuals web page.](#)***



## Search Every Web Page at Player-Care.com

Type in a Word, Phrase or Piano Name. Here's a Tip: When searching, try the most unique word first. For more accurate results, place keywords in "Quotation Marks". This Search Feature, from Google, is Fast and Accurate.

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*Please send your Comments or Suggestions to: [John A. Tuttle](#)*

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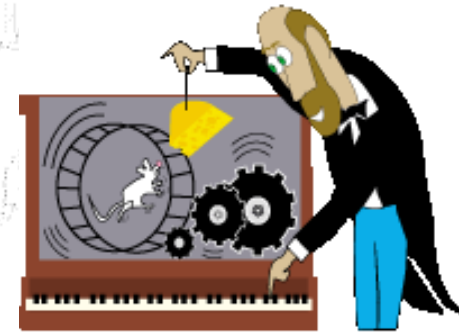
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## Technical Articles



[Service Manuals & Reprints - Click Here!](#)

Listed below are some of the Finest Articles ever written about Player Piano Mechanisms and Related Topics. A variety of subjects are covered from Action Work to Zippy Repairs. Many of these articles have been contributed to Player-Care by some of the most knowledgeable people in the Mechanical Music Industry. For a more complete listing, use the Drop-Down Menu on the [Main Home Page](#)



## **Pages of Technical Information**

[Accessing the piano action in a modern Aeolian](#)

[Adjusting the Air Motor Governor](#)

[Aeolian Control Buttons and Levers \(modern\)](#)

[AMPICO Comparisons, by Craig Brougher](#)

[Bellows Cloth by D. Armstrong](#)

[Books and Publications Listing](#)

[Bush & Lane Players](#)

[Eliminating Musty Odors in Pianos](#)

[Evaluate the Piano First](#)

[Facts about Hide Glue by C. Brougher](#)

[General Tubing Diagram](#)

[Hammer Lift Rail in Reproducing Grands](#)

[Hanta Virus Alert](#)

[Hide Glue: Q & A](#)

[Hide Glue: More Q & A](#)

[Hide Glue Guns/Synthetic Glue](#)

[How To Start Testing Your Unit](#)

[I Love a Player \(Chapter 1\)](#)

[Key Balance in Players](#)

[Lauter-Humana Diagram](#)

[Nickelodeons: Some History by Don Teach](#)

[\(The\) Player Rebuilding Principle](#)

[Player Principles Chapter 2 \(Under Const.\)](#)

[Players & Self-Acting Pianos up to 1900](#)

[Preventing Moth Damage](#)

[Rebuilding Ampico Valves by C. Brougher](#)

[Rebuild Metal-Stem Valves by C. Brougher](#)

[Rebuilding Simplex Block Valves](#)

[Rebuilding Standard Valves by D. Armstrong](#)

[Rebuilding Tips from Professionals](#)

[Regulating the AMPICO A](#)

[Regulating Upright Dampers by C. Brougher](#)

[Removing the Upper Section/Stack](#)

[Restoration and the "Purist" by C. Brougher](#)

[Re-Tubing the Transposing Tracker Bar](#)

[Re-Wiring A Player Piano by Stephen K Goodman](#)

['Rhapsody in Blue', The Missing Minutes](#)  
[Roll Arranging and the Duo-Art](#)  
[Rules of Player Piano Care](#)  
['Shellac' by Larry Broadmoore](#)  
[Some New Jersey Roll History](#)  
[Some Player Piano Roll History](#)  
[Suppliers of Player Piano Stuff](#)  
[Technical Articles by Wilberton Gould \(1927\)](#)  
[Testing the Tracker Device](#)  
[Testing the Stack \(Windchest\)](#)  
[The '360 Test' for Air- Motors](#)  
["The Valves", by Craig Brougher](#)  
[Tubing A Tracker Bar \(Pix & Words\)](#)  
[Tuning Pin Tightener by C. Brougher](#)  
[Types of Players and Mechanisms](#)  
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*Cartoon Graphics by E7 Style Graphics*

Comments to: [John A. Tuttle \(Player Piano Rebuilder/Site Designer\)](#)

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Now Playing: [Auggy Dog](#), an original piece by John Tuttle, composed in the very late 60's. This song use to be called 'Augmented'. It was previously presented on this page. After listening to it many, many times, I realized I had left part of the song out. So I went back and added the missing part.

The original version of "Augmented" can be found on the [MIDI page](#) with the rest of my Midi files.



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### Contact/Location

**John A Tuttle**  
**407 19th Ave**  
**Brick, NJ, 08724**  
**732-840-8787**



[John A Tuttle](#) Send me a letter. I enjoy hearing from new people.

- [Return to Home Page](#) This is where you came in.
- [Player Care Rules](#)

---

. Now Playing: "Saved by Gabriel" John A. Tuttle

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Now Playing: This MIDI file is called "[Comin' After You!](#)". I've been playing with this tune for a number of years. Someday I'll get it to sound like it does in my brain.

---

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**Service Manuals & Technical Reprints - [Click Here!](#)**

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Below is a listing of the Many Links to Related Websites  
that deal with Mechanical Music and/or Mechanical Musical Instruments  
Outdated Links? Please write to [John Tuttle](#)

### Links To Related Sites

(Note: All Links are Off-Site or email)

[1001 Pianos](#) Dedicated to the Music Community

[All About Piano in the Theater](#)

[Allied Piano, Webb Phillips & Associates](#) (Polyester Finishes/Refinishing/Rebuilding)

[Amadeus Piano Co., Inc.- Tuners/Rebuilders - NY, NJ, CT](#)

[AmpicoRolls.com](#) (Used Ampico Rolls for sale)

[Automated Musical Inst. Collectors' Assoc.](#) (AMICA)

[BlueBook of Pianos](#)

[BluesTone Music Rolls](#)

[BrettunsVillage Arch Punches](#)

[California Piano Movers](#)

[Canadian Piano Mover Directory](#)

[Canadian Piano Mover Information](#)

[Channel Bells](#)

[Columbia Organ Leathers](#)

[Country Piano](#) Restoration, refinishing and rebuilding services of all vintage pianos

Cunningham Piano Co. Ph: 215-438-3200

[Dancing Ivories](#) - Phone: 631-242-0963, E-mail - [Paul Keogler](#) (Kimball Parts)

[DeBence Antique Music World](#)

Doug Anderson (Player technician- WA State 360-929-3577)

[Ed Gaida's Web Site](#)

["Educational Piano Resources"](#) [Fair Organ Preservation Society](#)

[France Pianos Web Domain](#)

[Gale Bullock @ P&G Investments/Vintage Pianos](#)

[George Bogatko](#) (arranger/composer of 88 note, nickelodeon rolls)

[Grand Piano Home](#) (Search from Nimbus Records)

[Greg's Antique Piano Page!](#)

[Hank & Jere's House of Music Machines](#)

[Hear and Play](#) - "Learn to play piano by ear"

["I Write The Music" Website](#)

[John Omiatek's 'Universal' Webpage](#)  
[John Roache's Ragtime MIDI Library](#)  
[John Trefz](#) (Piano Bridges & Pinblocks)  
[John Tuttle's Player Piano Repair Service](#)  
[K & M Professional Piano Moving](#) (Pianos Only)  
[Kevin McElhone Mechanical Music](#)  
Keyboard Carriage (Corp.) - Piano & Organ Moving - (B-to-B Only) 270-737-5797  
[Keyboard X-Press, LLC](#) Piano Movers, NJ, NY, DE, PA  
[Let Us Sell Your Piano](#)  
[Listing of Piano Roll Companies](#)  
[Maintaining a Player Piano](#) by Van Nattan  
[Maxim Piano Service](#)  
[Mechanical Music Digest](#)  
[Mechanical Music Press \(books\)](#)  
[Meliora Music Rolls](#)  
[Michael Waters..](#) Player Piano Rebuilding  
[Midnight Rain Productions](#)  
[Modern Piano Moving](#)  
[Monrovia Sound Studio](#)  
[Morelocks \(Wurlitzer 1202 & 1203 parts\)](#)[click here](#)  
[Museums with Mechanical Instruments](#)  
[Music and You...](#) On-line piano lessons, piano books and original music.  
[MUSICANIC...](#) Restoration Supplies and Services in UK.  
[MusicTrader/Links](#)  
[New Music Label - Your Ticket into the Music](#)  
[Nickelodeon, Orchestrion and Band Organs](#)  
[New Jersey Business Listings](#) - Simple & Direct  
[North West Player Piano Association](#)  
[O'Neill Brothers:](#) two brothers on two pianos Over 700,000 CD's sold!  
[Orange Coast Piano's](#)  
[Precision Music Rolls](#) (Ampico Rolls)  
[Philippe Rouillé's "Musica Mecanica"](#)  
[PianoDesk.com](#)  
[PianoGen-](#) email (Information about pianos)  
[PianoMart.com - Buying or Selling Pianos](#)  
[Piano Roll Store](#) (Welte Rolls)  
[Piano Roll Stuff](#) ('Label Maker' by John W Miller)  
[Piano Ticklers Music Rolls](#) (AMPICO Recuts)  
[Player-Care Domain](#)  
[Player Piano Group](#)  
[Player Piano & Mechanical Music Exchange](#)  
[Player Piano Restorations Illustrated](#)  
[Play Piano \(Lessons for Adults\)](#)  
[Play-Rite Music Rolls](#) ("O" Rolls in stock!)  
[Pristini Reeds](#) Reeds and Instrument Repair  
[Ragland Piano Co.](#)  
[Ragtime Automated Music](#)  
[Ragtime Press Midi Music](#)  
[Ragtimers Organization/Links](#)  
[Resources Listing \(MMD\)](#) (roll dealers/perforators and much more)  
[Reproducing Piano Roll Foundation \(Albert Petrak-deceased Jan 2014\)](#)  
[Reed Organ Society](#)  
[Richard Moody's "PnoTec" Web Site](#)



Robert Frank -Gulbransen Parts (865-984-2153)

[Roberts Musical Restorations](#) Custom made Nickelodeon and Band Organ parts.

[Rochester Piano Key](#)

[SEO Services India \(Musical Instruments Sales\)](#)

[Short Mountain Music Works](#)

[Spencer's E-Rolls](#)

[Steve's Piano Service](#) (piano parts)

[Story & Clark Player Pianos](#)

[The Piano Network](#)

[The Pianola Group](#)

[The Player Piano Group](#)

[The Player Piano Page](#) by Frank Baxter

[The Player Piano Page](#) (In the UK)

[Tune 1000](#): Manufacturer of high-quality MIDI files with Lyrics

[Vintage and Rare](#): Antique and new pianos and effects

[Virginia Musical Museum](#): Williamsburg, VA

[Werner Baus](#) (Collector/Restorer)

[Yesterday's Music](#)

### [Automated Listener Management system](#)

Automated Radio Station Management System can do wonders by attracting audience and Maximize Real-time Interaction with Listeners. Increase Radio Listeners Interaction by Automated Management System for Broadcasting.

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for questions or comments contact  
**john@player-care.com**

Last Updated: March 12, 2015 by John A Tuttle

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407 19th Ave, Brick, NJ, 08724  
Phone Number 732-840-8787



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John Tuttle's **PLAYER-CARE**  
*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



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Player Technicians Listing -[\(click\)](#) Player Piano Makers -[\(click\)](#) Player Piano Roll Makers -[\(click\)](#)

**Service Manuals & Technical Reprints - [Click Here!](#)**

## ***Used Parts for Player Pianos***

**Notice:** Due to an increasing number of calls and emails concerning '[missing parts](#)', Player-Care has created this database of Available Used Parts. To list parts or bring an outdated link to my attention - [click here](#). Since this is a free service, we will post items at our convenience. Typically, items will be posted within less than 24 hours during the week. If you'd like to post a picture, send it with a note to: [johnnatuttle@gmail.com](mailto:johnnatuttle@gmail.com)

***Player-Care is in no way liable for any of the listings on the Used Parts page. If you feel you've been purposely misled or cheated, we'd like to know. That way we can remove a listing or post a warning. However, we will NOT get in the middle of any deal you have made with another individual. BUYER OR SELLER BEWARE!!***

**To find a particular part, use your browser's Edit/Find feature.**

**A typical listing will look like this:**

name: John A Tuttle

address: 407 19th Ave

city: Brick

state: NJ

zip: 08724

country: USA

phone: 732-840-8787

comments: I have a rotary vacuum pump for a Duo-Art reproducing grand available for sale. I'm asking \$650.00 plus the cost of having UPS box it up and ship it with insurance.

posted: 4/29/2016

name: Eric Bergstrom

email: bergytone@yahoo.com

address: 13317 152nd Av

city: Grand Haven

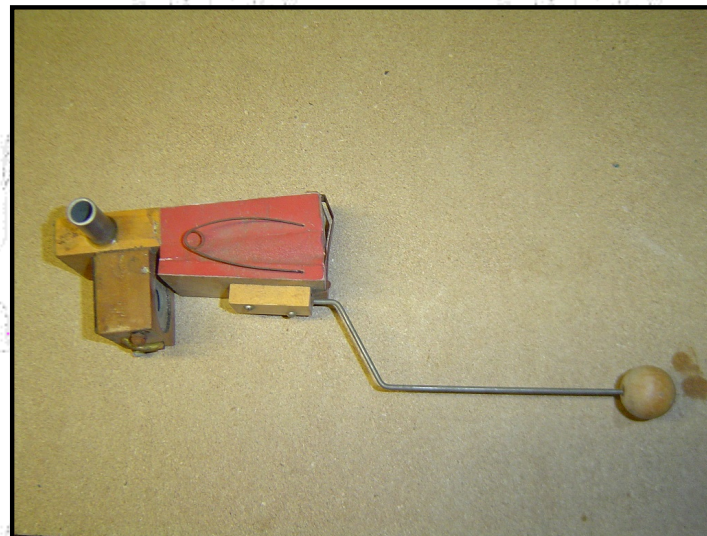
state: MI

zip: 49417

country: USA

phone: 6307721958

comments: Drum or Xylophone beater. PPCo #918. 5 x 2" body, 7" beater 1/2" supply tube. Valve is tight, pneumatic needs rebuilding. \$25





posted: 5/3/2016

name: Eric Bergstrom

email: bergytone@yahoo.com

address: 13317 152nd Av

city: Grand Haven

state: MI

zip: 49417

country: USA

phone: 6307721958

comments: Standard Pneumatic Co Tracker system. Unrestored. Complete. I have three or more to pick from . \$10 each, plus shipping. Email me for more photos and total cost.



One of the better sources of used parts is the [Mechanical Music Digest](#). On a regular basis, members post items that they have for sale or that they are giving away. Such items are listed in the [Archives](#) as "FS". Also, check out the [PianoWorld](#) website.

To qualify as a "missing part", the part must have already been removed from the piano. We will not accept listings for things like 'mostly intact player piano, parts available' or 'free player: for parts'. This listing is for parts that are basically intact and in need of restoration. "New Parts" do not qualify as 'missing parts'. If you have a new part that you'd like to sell, contact [John Tuttle](#).



[Return to the Player-Care Home Page](#)

*This page was last revised on April 26, 2016 by [John A. Tuttle](#).*

Although I prefer that you send [E-Mail](#), if you have a non-order related question, you can reach me at 732-840-8787. If I'm in the Shop or at Home, I will answer the phone. Otherwise, please leave a message.



---

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Phone Number 732-840-8787



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## Testing the Player Piano

Here are the links to the webpages that deal with understanding and testing the player mechanism. For future reference, you might want to Bookmark this page right now! To identify the various parts that make up a regular player piano, [click here!](#) Also, check out the excellent series of Technical Articles from the Tuners' Journal (circa 1927) - [click here!](#) Without exception, the most valuable tool you can use to test a player piano is a [QRS Test Roll](#).

[Build a Vacuum Gauge](#)

[Testing Your Player Piano](#)

[Testing the Air Motor](#)

[Testing the Lower Section](#)

[Testing the Play/ReRoll Lever](#)

[Notes That Stay "ON"](#)

[Using a Trackerbar Pump](#)

[Adjusting the brakes](#)

[Testing Internal Flap Valves](#)

[Checking/Testing A Block Valve](#)

[Testing the Stack](#)

[Testing the Air Motor Governor](#)

[Air Motor Timing](#)

[Testing the Tracking Device](#)

[The Transmission](#)

[Testing the Tracking System](#)

[Adjusting a Finger Tracking System](#)

[Adjusting Lauter Air Motors](#)

[Good and Bad Roll Tracking](#)

[Aligning the Take-Up Spool](#)

[Testing the Basic Controls](#)

[Basic Rules of Piano/Player Care](#)

[Basic Principle of Operation](#)

[Basic Tubing Diagram](#)

[Another Tubing Diagram](#)

[Evaluating the Piano](#)

[Test for General Stack Leakage](#)

[Test for Kimball Valve Block](#)

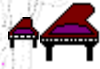
[Understanding the Standard Tracker](#)

For Links to more information, try the Drop-Down Lists on the Main Page - [CLICK HERE!](#)

Or, Search Player-Care.com for specific Keywords - [CLICK HERE!](#)

Now Playing: This MIDI file is called "[Comin' After You!](#)". I've been playing with this tune for a number of years. Someday I'll get it to sound like it does in my brain.





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*These are advertisements for your convenience. They do not necessarily represent any standards set by Player-Care. We suggest that you check to see that the technician or company you choose is willing to list, in writing, the details of all the work to be done, the warranty concerning the quality of their work and the resultant performance expectations. As always, 'Buyer Beware' holds true.*

## *Player and Reproducing Piano Technicians*

(This page has been in existence since December 1996. Last Update: October 13, 2014)

**To View the Profile for any Technician, just [CLICK](#) on their [Name](#)**

***The Index is now divided into Three Sections:***

***[Technicians in the U.S.](#), [Technicians in Other Countries](#) and [Strictly Free Advice](#)***

***To be Added to this List, Fill out [THIS FORM](#)-click here***

***To see how far YOU live from a particular Technician, try [MapQuest](#).***



### **ALL PROFILES LOOK SIMILAR TO THIS:**

John Tuttle's Player-Care  
407 19th Ave  
Brick, NJ  
08724  
Phone: 732-840-8787  
E-Mail: [John A Tuttle](#)  
Web Site: <http://www.player-care.com>

Located in Central New Jersey, Player-Care is focused on supplying people with the parts, supplies, and technical materials needed to "Keep The Music Rolling". We also do whatever we can to help people, via email or phone, solve the problems they're experiencing with their player piano.

*The Listings are Updated as the Information arrives.*

### **US Technicians by State (alphabetical)**

Alabama	<a href="#"><u>Robert M. Turner</u></a>	Cleveland
Alabama	<a href="#"><u>Coleman E. Kimbrell</u></a>	Florence
Alabama	<a href="#"><u>Stan Kimbrell</u></a>	Florence
Alaska	Not Yet	...
Arizona	<a href="#"><u>Clinton Gray</u></a>	Sierra Vista
California	<a href="#"><u>Court Lannom</u></a>	Costa Mesa
California	<a href="#"><u>Stephen K. Goodman</u></a>	Fresno/Clovis
California	<a href="#"><u>Diane DeTar &amp; Wayne Johnston</u></a>	La Mesa
California	<a href="#"><u>Nick and Denise Morris</u></a>	Los Angeles
California	<a href="#"><u>Rick Bourgeois</u></a>	Pittsburg
California	<a href="#"><u>Larry Broadmoore</u></a>	LA and San Fernando Valley
California	<a href="#"><u>Ron Sanchez</u></a>	Monrovia
California	<a href="#"><u>Josh Rapier</u></a>	Moreno Valley
California	<a href="#"><u>Clayton Graef</u></a>	Santa Maria
California	<a href="#"><u>Mark Greisen</u></a>	Los Angeles
California	<a href="#"><u>Vincent Wukmir</u></a>	Upland (LA area)
California	<a href="#"><u>Thomas Silverstein</u></a>	Romoland
California	<a href="#"><u>Randy Cox</u></a>	So. Calif.
California	<a href="#"><u>Martin C Sigley</u></a>	San Jacinto
California	<a href="#"><u>Ray and Dan Ternstrom</u></a>	Walnut Creek
California	<a href="#"><u>Todd and Sharon Lyall</u></a>	South Pasadena
California	<a href="#"><u>Brian Grado</u></a>	Orange
California	<a href="#"><u>David Dewey</u></a>	Oroville
California	<a href="#"><u>Ken Preece</u></a>	Anaheim Hills
Colorado	<a href="#"><u>Arthur Reblitz</u></a>	Colorado Springs



<b>Colorado</b>	<a href="#"><u>Roger Jennison</u></a>	<b>Colorado Springs</b>
<b>Colorado</b>	<a href="#"><u>Wes Melander</u></a>	<b>Loveland</b>
<b>Connecticut</b>	<a href="#"><u>Herbert Lindahl</u></a>	<b>South Windsor</b>
<b>Connecticut</b>	<a href="#"><u>David M Saleh</u></a>	<b>Waterbury</b>
<b>Delaware</b>	<a href="#"><u>Nick Yengle</u></a>	<b>Georgetown</b>
<b>District of Columbia (Wash., D.C.)</b>	<b>Not Yet</b>	<b>...</b>
<b>Florida</b>	<a href="#"><u>Robert Loeffler</u></a>	<b>Deland (Central)</b>
<b>Florida</b>	<a href="#"><u>Daniel Geoghegan</u></a>	<b>(South)</b>
<b>Florida</b>	<a href="#"><u>Ferdinand Pointer</u></a>	<b>Clearwater</b>
<b>Florida</b>	<a href="#"><u>Arthur Marino</u></a>	<b>Sunrise</b>
<b>Florida</b>	<a href="#"><u>Warren Officer</u></a>	<b>Jacksonville</b>
<b>Georgia</b>	<a href="#"><u>Greg Seagraves</u></a>	<b>Lilburn</b>
<b>Georgia</b>	<a href="#"><u>Jane Purtzer</u></a>	<b>Atlanta</b>
<b>Georgia</b>	<a href="#"><u>Rick Cooley</u></a>	<b>Decatur</b>
<b>Hawaii</b>	<b>Not Yet</b>	<b>...</b>
<b>Idaho</b>	<a href="#"><u>Ken Davis</u></a>	<b>Twin Falls</b>
<b>Idaho</b>	<a href="#"><u>Michael White</u></a>	<b>Hailey</b>
<b>Illinois</b>	<a href="#"><u>James Jelinek</u></a>	<b>Berwyn</b>
<b>Illinios</b>	<a href="#"><u>Bing Gibbs</u></a>	<b>St. Louis Metro Area</b>
<b>Illinios</b>	<a href="#"><u>Dave Lennard</u></a>	<b>Carpentersville</b>
<b>Indiana</b>	<a href="#"><u>Dan Tuttle</u></a>	<b>Indianapolis</b>
<b>Iowa</b>	<a href="#"><u>Timothy Paterson</u></a>	<b>Indianola</b>
<b>Iowa</b>	<a href="#"><u>Tom Ashing</u></a>	<b>Des Moines</b>
<b>Iowa</b>	<a href="#"><u>Tom Dawson</u></a>	<b>Washington</b>
<b>Iowa</b>	<a href="#"><u>Lee Zimmerline</u></a>	<b>New Virginia</b>
<b>Iowa</b>	<a href="#"><u>Annie Grieshop</u></a>	<b>Melbourne</b>
<b>Kansas</b>	<a href="#"><u>Marvin D. Duell</u></a>	<b>Goodland</b>
<b>Kansas</b>	<a href="#"><u>Paul J Benner, Sr.</u></a>	<b>Lawrence</b>
<b>Kansas</b>	<a href="#"><u>John A Peters</u></a>	<b>Great Bend</b>
<b>Kansas</b>	<a href="#"><u>Kevin Way</u></a>	<b>Galena</b>

Louisiana	<a href="#">Chris Y. Kalstone</a>	Shreveport
Maine	<a href="#">Dennis M. Leight</a>	Tenants Harbour
Maryland	<a href="#">Debra St. Charles</a>	Woodbine
Maryland	<a href="#">Dick Hack</a>	Annapolis
Maryland	<a href="#">John D. Rutoskey</a>	Baltimore
Maryland	<a href="#">John Grant</a>	Baltimore
Maryland	<a href="#">Jeremy Carlson</a>	Baltimore/DC/NOVA
Massachusetts	<a href="#">Thomas E. Ahearn</a>	Boston
Massachusetts	<a href="#">Geoffrey Searles</a>	Grafton
Massachusetts	<a href="#">Louis A. Gentile</a>	Quincy
Massachusetts	<a href="#">Debra L. Legg</a>	Rockport
Massachusetts	<a href="#">Jonathan J Page</a>	Cape Cod
Massachusetts	<a href="#">Norman Hall</a>	North Attleboro
Massachusetts	<a href="#">James Sasso</a>	Wrentham
Michigan	<a href="#">Steve Grattan</a>	Port Huron
Michigan	<a href="#">Bennet Leedy</a>	Coloma
Michigan	<a href="#">Anthony Novak</a>	Utica
Michigan	<a href="#">Karl Vogellehner</a>	Warren
Michigan	<a href="#">Eric Bergstrom</a>	Grand Haven
Minnesota	<a href="#">Donald Barton RPT DPS</a>	Minneapolis
Mississippi	Not Yet	...
Missouri	<a href="#">Craig Brougher</a>	Independence
Missouri	<a href="#">William Singleton</a>	Saint Louis
Missouri	<a href="#">Dave Hall</a>	Kansas City
Missouri	<a href="#">Doug L. Bullock</a>	St. Louis Metro Area (Alton, IL)
Missouri	<a href="#">Duaine Hechler</a>	Florissant
Montana	<a href="#">C. David Lamb</a>	Great Falls
Nebraska	<a href="#">Thomas Kegler</a>	Herman
Nebraska	<a href="#">Larry Schuette</a>	Raymond
Nevada	<a href="#">Bob Billings</a>	Reno

Nevada	<a href="#">Barry C Casper</a>	Las Vegas
Nevada	<a href="#">John M Kirin</a>	Virginia City (serving the North West)
New Hampshire	<a href="#">Skip Downing</a>	Lebanon
New Hampshire	<a href="#">William B. Boulton</a>	Moultonboro
New Hampshire	<a href="#">Timothy Westman</a>	Woodsville
New Jersey	<a href="#">Samuel Marquez</a>	Williamstown
New Jersey	<a href="#">Les Beebe</a>	Medford
New Jersey	<a href="#">David Estey</a>	Passiac
New Mexico	(NOT YET)	.
New York	<a href="#">Bill Maguire</a>	NYC/LI
New York	<a href="#">Doug Vensel</a>	Malone
New York	<a href="#">Lance P. Reed</a>	Johnsonville
New York	<a href="#">Ira Malek</a>	Glen Head
New York	<a href="#">Keith Gramlich</a>	East Meadow
North Carolina	<a href="#">Joseph D Gotta</a>	Charlotte
North Carolina	<a href="#">Sam Harris</a>	Fountain
North Carolina	<a href="#">Michael RayBould</a>	Ferguson
North Carolina	<a href="#">Gene RayBould</a>	Ferguson
North Carolina	<a href="#">Ron Hodges</a>	Elizabeth City
North Carolina	<a href="#">Peter Carlos Estep</a>	Hillsborough
North Dakota	Not Yet	...
Ohio	<a href="#">Terry B. Haughawout</a>	Bloomdale
Ohio	<a href="#">Robert J. Myers</a>	Columbia Station
Ohio	<a href="#">Jim Hockenberger</a>	Toledo
Ohio	<a href="#">Nathan 'Skip' Woodhull</a>	Lima
Ohio	<a href="#">Donald Dusenbury</a>	Cleveland Area
Ohio	<a href="#">Richard Krewson</a>	Dayton
Ohio	<a href="#">Joseph Washek</a>	Lancaster
Oklahoma	<a href="#">Mel Sutter</a>	Tulsa/Bernice
Oklahoma	<a href="#">Norman Cantrell</a>	Lawton



Oklahoma	<a href="#"><u>Dale Money</u></a>	Sand Springs
Oklahoma	<a href="#"><u>William Rowland</u></a>	Broken Arrow
Oklahoma	<a href="#"><u>Lee Jackson</u></a>	Grove
Oregon	<a href="#"><u>John R. Pohlpete</u></a>	Oregon City
Oregon	<a href="#"><u>Denis Wilkinson</u></a>	Portland
Oregon	<a href="#"><u>Bruce Newman</u></a>	Port Orford
Oregon	<a href="#"><u>Lotof Shahtout</u></a>	Portland
Pennsylvania	<a href="#"><u>Wesley Gill</u></a>	Apollo
Pennsylvania	<a href="#"><u>Nevin Engle</u></a>	Grantham
Pennsylvania	<a href="#"><u>Jon Perry</u></a>	Marion Center
Pennsylvania	<a href="#"><u>David M. Rodgers</u></a>	North East
Pennsylvania	<a href="#"><u>Howard Stickley</u></a>	Philadelphia
Pennsylvania	<a href="#"><u>Joel C Cluskey</u></a>	Pittsburgh
Pennsylvania	<a href="#"><u>Philip Jamison</u></a>	West Chester
Pennsylvania	<a href="#"><u>John G Ravert</u></a>	Watsonstown
Pennsylvania	<a href="#"><u>Joseph Osborne</u></a>	Carlisle
Rhode Island	<a href="#"><u>Kirk Russell</u></a>	Narragansett
Rhode Island	<a href="#"><u>Norman Houle</u></a>	Warwick
South Carolina	<a href="#"><u>Bill Maxim</u></a>	Columbia
South Carolina	<a href="#"><u>G. Roger Dayton</u></a>	Greenville
South Dakota	<a href="#"><u>Michael Edwards</u></a>	Rapid City
Tennessee	<a href="#"><u>Damon Seale</u></a>	Franklin
Tennessee	<a href="#"><u>Brian Thornton</u></a>	Woodbury
Tennessee	<a href="#"><u>Tim Johnson</u></a>	Knoxville
Tennessee	<a href="#"><u>Phil Nichols</u></a>	Lafayette
Tennessee	<a href="#"><u>Phillip Pardue</u></a>	Loudon
Tennessee	<a href="#"><u>Chris Chernobieff</u></a>	Knoxville
Texas	<a href="#"><u>Howard Gustafson</u></a>	Texarkana
Texas	<a href="#"><u>Leon Speir</u></a>	Dallas
Texas	<a href="#"><u>Don Bryant</u></a>	Mesquite (D/FW)

Texas	<a href="#"><u>John Talbot</u></a>	San Antonio
Texas	<a href="#"><u>Ed Gaida</u></a>	San Antonio
Texas	<a href="#"><u>Joseph Dunn</u></a>	Mountain City
Texas	<a href="#"><u>Phillip L Williams</u></a>	Krum
Texas	<a href="#"><u>Dale Probst</u></a>	Wichita Falls
Texas	<a href="#"><u>Robert R Gainer</u></a>	McKinney
Texas	<a href="#"><u>Robert (Bob) Stewart</u></a>	Denton
Utah	<a href="#"><u>James Williams</u></a>	Ogden
Utah	<a href="#"><u>Jeremy Stevens</u></a>	Kaysville
Utah	<a href="#"><u>Jay B Atwater</u></a>	Kaysville
Utah	<a href="#"><u>Seth Dunkley</u></a>	Logan
Vermont	<a href="#"><u>Bruce Stevens</u></a>	Wells River
Virginia	<a href="#"><u>Al Pebworth</u></a>	Chesapeake
Virginia	<a href="#"><u>Thomas McClung</u></a>	Staunton
Virginia	<a href="#"><u>Tom Shaw</u></a>	Charlottesville
Washington	<a href="#"><u>Jeff Davis</u></a>	Seattle
Washington	<a href="#"><u>Bruce Crawford</u></a>	Everett/Burlington
Wisconsin	<a href="#"><u>Roger Klingbeil</u></a>	Jefferson
Wisconsin	<a href="#"><u>Jim Pekol</u></a>	Rhineland
Wyoming	<a href="#"><u>Tom Zook</u></a>	Casper
Wyoming	<a href="#"><u>Steve Westfahl</u></a>	Laramie

For Additional Listings, visit: <http://www.pianoworld.com/restore.htm>



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***Technicians in Other Countries (alphabetical)***

<b>Africa</b>	<b><u>Bernt W. Damm</u></b>	<b>Cape</b>
<b>(South) Africa</b>	<b><u>Paul Fisher</u></b>	<b>Cape Town</b>
<b>Australia</b>	<b><u>Brian A. Butler</u></b>	<b>Swan Hill, Victoria</b>
<b>Australia</b>	<b><u>John Borsje</u></b>	<b>Brighton</b>
<b>Australia</b>	<b><u>Bruce C. Campbell</u></b>	<b>Sydney</b>
<b>Australia</b>	<b><u>Steve Marx</u></b>	<b>Canley Vale</b>
<b>Australia</b>	<b><u>Alastair Dubber</u></b>	<b>New South Wales</b>
<b>Australia</b>	<b><u>Paul S.J. Smith</u></b>	<b>Victoria</b>
<b>Australia</b>	<b><u>Peter J. Cox</u></b>	<b>Williamstown</b>
<b>Australia</b>	<b><u>Daniel Bush</u></b>	<b>Warragul</b>
<b>Australia</b>	<b><u>James Gillies</u></b>	<b>Cairns</b>
<b>Australia</b>	<b><u>Kerry Cooper</u></b>	<b>Regents Park, QLD</b>
<b>Australia</b>	<b><u>John Smith</u></b>	<b>Beenleigh, QLD</b>
<b>Australia</b>	<b><u>Glenn Heath</u></b>	<b>Brisbane, QLD</b>
<b>Australia</b>	<b><u>Lex Vandervalk</u></b>	<b>Gold Coast, QLD</b>
<b>Australia</b>	<b><u>Peter Coggins</u></b>	<b>Sydney/Blue Mts, NSW</b>
<b>Belgium</b>	<b><u>Herman Joris</u></b>	<b>Leuven</b>
<b>Belgium</b>	<b><u>Jacques Gregoire</u></b>	<b>Liege</b>
<b>Canada</b>	<b><u>Ray Hopland</u></b>	<b>Calgary, Alberta</b>
<b>Canada</b>	<b><u>David &amp; Lesley Evans</u></b>	<b>Revelstoke, British Columbia</b>
<b>Canada</b>	<b><u>Frank Tsong</u></b>	<b>Surrey, British Columbia</b>
<b>Canada</b>	<b><u>John M. Ross</u></b>	<b>Windsor, Nova Scotia</b>
<b>Canada</b>	<b><u>Michael RayBould</u></b>	<b>Montreal, Quebec</b>
<b>Canada</b>	<b><u>The Great Canadian Nickelodeon Co.</u></b>	<b>Mount Forest, Ontario</b>
<b>Canada</b>	<b><u>Tony Law, Melody Music</u></b>	<b>Nepean, Ontario</b>
<b>Canada</b>	<b><u>David Renaud</u></b>	<b>Gatineau, Quebec</b>
<b>Canada</b>	<b><u>Robert Desjardins</u></b>	<b>Sorel-Tracy, Quebec</b>
<b>Canada</b>	<b><u>Luke Wickenhauser</u></b>	<b>Watson, Saskatchewan</b>
<b>Egypt</b>	<b><u>Emad Soultan</u></b>	<b>Cairo</b>



England	<a href="#">Collingham Pianos</a>	Collingham
England	<a href="#">P Key</a>	Dorset
England	<a href="#">The Pianola Workshop/Roger Waring-Prop.</a>	West Midlands
England	<a href="#">Cambridge Pianola Co./Tom Poole-Prop.</a>	The Limes/Landbeach
England	<a href="#">Nigel Perry</a>	East Midlands/Anglia
England	<a href="#">Steve Dibble</a>	Towcester/Northants
England	<a href="#">David Dibley</a>	Brighton/East Sussex
England	<a href="#">Edward Baylis</a>	Raglan, Monmouthshire
England	<a href="#">Peter Palmer</a>	Leigh, Lancashire
Israel	<a href="#">Eliyahu Shahar</a>	Kfar Neter
Italy	<a href="#">Valentino Facchinetti</a>	Brescia
Italy	<a href="#">Leonardo Forti</a>	Rome
Mexico	<a href="#">Alejandro Castellón-Pérez</a>	Guadalajara
New Zealand	<a href="#">Peter van der Stam</a>	Hawles Bay
So. America	<a href="#">Prof. Motta</a>	Belo Horizonte, Brazil
Spain	<a href="#">Norbert Coderch</a>	Terrassa



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## Strictly Free Advice

Canada	<a href="#">Ken Vinen</a>	Ontario
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For a listing of technicians who work on Electronic Players - [Click Here](#) (Maintained by the [Musical Instrument Technicians Association](#))

For a listing of Piano Tuners by State - [Click Here](#) (Maintained by [Piano Acoustics](#))

***The information presented in the Player Technicians Pages is provided by the individual technicians listed herein (or their friends), who are solely responsible for the accuracy of the listing. Any outdated links or changes should be brought to my attention via this [E-Form LINK -Click Here](#)***

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**ALL Comments and Suggestions for this page are welcome.**

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***This page was last revised on October 23, 2014 by John A. Tuttle***

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Now Playing: "[Johnny Rag](#)", by John A. Tuttle.



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## **970+ Player Piano Makes & Makers**

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## **The Player Actions that They Used**

[\(Listing of 91 Known Player Actions\)](#)

**Non-US Made Instruments - [Click Here!](#)**

**Very Interesting Instruments - [Click Here!](#)**

Next to each piano name is one or more numbers. Each number represents a different Player Piano Action. Clicking on the number will take you to a 'Systems' page which may have a short description of that action along with pictures or drawings (if available). Compare what is described in the page against the player action in your piano. Every 'Systems' page has a link to the applicable [Service Manual or Technical Reprint](#), if one is available.

In many cases, companies used different player actions in different models and/or at different times during the heyday of the player piano. If you have tried all of the selections that are offered here, and you still can't find a match, I'd like to know. The completeness and accuracy of this listing depends in part on you. As new information becomes known, the list is immediately updated. If it's not in this list, please write to: [John A Tuttle](#)

For historical information about a piano company, please visit the [Blue Book of Pianos](#) website. For another source of historical information, visit the [Howe Collection, Piano Series](#) webpage. And for even more information, provided by [Bill Kibby](#), visit "[PianoGen.org](#)". For possible help in determining the age of your piano, [click here!](#). Other online listings of piano serial numbers/ages can be seen at "[Orange Coast Pianos](#)", "[Bluebook of Pianos](#)", or "[Pianoshop.co.uk](#)" (mostly non-US makes).



**Disclaimer:** This listing is only as accurate as the information that has been provided by numerous sources. It is not possible to verify all of the information. However, if you are positive that something in the listing is in error, please bring it to my attention and it will be corrected.

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58. [KONTROLLIOLE \(German\)](#)

59. [LOWERY](#) (in work)

60. [AMPICO](#) (Reproducing)

61. [APPA](#) (Automatic Player Piano Actions, small-  
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62. [CAROLA](#), (described), (made by Bluethner,  
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63. [CLAVIOLA](#) - see Phonola

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82. Smith & Nixon (no information available)

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84. Conn Player System (no information)

85. Scott Player Action Co., Racine Wis. (no  
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86. Ennis (no information)

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- no technical information

88. Recordo - web page in work

89. [JANSSEN \(modern\)](#)

90. CLARENDON -made by Haddorff - No  
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91. VIRTUOLO (no information) Established by  
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92. JOHN CHURCH [Action and Patents](#)

93. HARDMAN PECK & Co. [Pictures and Patents](#)

94. ANGELUS/AMPHION [Diagrams and Pictures](#)

**\*Note: Very similar to Standard - had both two and four hole tracking**

**\*Note 2: Uses 'in-the-trackerbar' finger tracking. No information in the Pierce Piano Atlas about the company. Made in Buffalo, NY. (see pictures [1](#) & [2](#))**

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Now Playing: This MIDI file is called "[Augmented](#)". Composed and recorded by John A Tuttle.

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[Updated List of Roll Makers And Dealers That I Have Found](#)



John Tuttle's **PLAYER-CARE**

*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



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ORDERING



## *Player Piano Roll Makers Listing*

ORDERING



Here is a listing of player piano roll makers who have asked to be listed at Player-Care. My aim in providing the information and the links below is to help visitors find the music rolls they desire and to help those people who sell recuts and make it their policy to respond to your wants and needs in a timely and professional manner. The listings are 100% free. The only proviso I've made with the company owner is that they respond to your request within 36 hours. If they do not, please [contact me](#) immediately, and their listing will be removed. My only request to you is that you let the company know that you located them at Player-Care. Also, Karl Ellison, who took on the task of updating the Manufacturers Listing, is displaying the listing at the Mechanical Music Digest. To view the listing, [click here](#). Then click on "Piano Music Rolls - Sales/Perforators".

---

Company Name: [MELIORA MUSIC ROLLS](#)

Explanation of rolls offered: 88 Note, Duo-Art, Ampico, and Welte rolls

Email Address: (Tim Baxter) [MelioraRol@aol.com](mailto:MelioraRol@aol.com)

Web Address: <http://www.melioramusicrolls.com>

Mailing Address: Meliora Music Rolls

Street: 939 Briarcliff Rd., NE

City, State: Atlanta, GA

Zip Code: 30306-4664

Catalog Available: YES

Credit Cards Taken: YES (through PayPal)

Minimum Purchase Requirement: NO

---

## John Farrell's MIDI FILE PAGE

Company Name: [Sierra Music Rolls](#)

Explanation of rolls offered: These are new rolls, not recuts - jazz, blues, boogie-woogie and all kinds of hot piano music, mostly transcribed from recordings by famous jazz pianists.

Web Address: <http://homepages.tesco.net/~stridepiano/midifiles.htm>

Email Address (UK): (John Farrell) [stridepiano@tesco.net](mailto:stridepiano@tesco.net)

Email Address (USA): (Bob Billings) [perforator@sbcglobal.com](mailto:perforator@sbcglobal.com)

Mailing Address: JAM Rolls

Street: 14010 Rim Rock Drive

City, State: Reno, NV

Zip Code: 89521-7347

Phone Number: 775 853-4659

FAX:

Catalog Available: YES

Credit Cards Taken: YES (through PayPal)

Minimum Purchase Requirement: NO

Owners Note: We do custom recutting of 9/inch rolls up to 100 wide (AMPICO B), but not those with theme perms yet. We also do custom recutting of 6/inch rolls, and are in the process of lining up a source of proper 65/58-note flanges, wood, not modified Tonnesen plastic flanges (Ed Gaida). And as you know from the JAM listing we are doing 6 /inch nickelodeon rolls, as well as 9/inch such as M and O rolls. We have gone to a new type of paper which is superior in many ways to the dry wax Kraft paper we have all been using for years. It is dimensionally stable with humidity change, and punches quite cleanly. It also spools tightly, which reduces the problem of the old paraffin wax paper spooling loosely, then "catching up", while the paper stays fixed over the tracker bar. Not a problem with small rolls, but definitely with jumbo and nickelodeon rolls.

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---

Company Name: [Playtime Music Rolls](#)

Explanation of rolls offered: 88 Note and Duo-Art  
[remaining stock from Laguna Rolls made by Stephen Cox  
now Dec'd].

Web Address: [www.kevinmcelhone.com/](http://www.kevinmcelhone.com/)

Email Address: [kevin\\_mcelhone@hotmail.com](mailto:kevin_mcelhone@hotmail.com)

Phone Number: 1536 726759

FAX Number: -----

Catalog Available: YES

Credit Cards Taken: NO, Will deal in ANY Currency

Minimum Purchase Requirement: NO

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**Stephen Simpson's**

**Happy Cow Music**

[www.happycowmusic.co.uk](http://www.happycowmusic.co.uk)

*Music for mechanical instruments*

---

Company Name: [Happy Cow Music](#)

Explanation of rolls offered: 88 Note

Web Address: <http://happycowmusic.co.uk>

Email Address: (Stephen Simpson) [happycowmusic@freeola.com](mailto:happycowmusic@freeola.com)

Mailing Address: Happy Cow Music

Street: 103 Nottingham Drive

Wingerworth

City, State: Chesterfield

Derbyshire, United Kingdom

Zip Code: S42 6WB

Phone Number:

Credit Cards Taken: YES (through PayPal)

Minimum Purchase Requirement: NO

---





Company Name: [Player Piano and Mechanical Music Exchange](http://www.mmdigest.com/Exchange/)

Explanation of rolls offered: 88-note recuts and original rolls

Web Address: <http://www.mmdigest.com/Exchange/>

Email Address: [antiquedogs@yahoo.com](mailto:antiquedogs@yahoo.com)

Mailing Address: Player Piano and Mechanical Music Exchange

Street: 1217 Colorado St.

City, State: Manhattan, Kansas

Zip Code: 66502

Phone Number: ---

FAX Number: Fax available if needed

Catalog Available: NO

Credit Cards Taken: YES (through PayPal)

Minimum Purchase Requirement: NO

---

Company Name: [Musikwerkstatt Monschau](http://www.maesto.com)

Owner: Tom Jansen

Explanation of rolls offered: About 23 different systems

Web Address: <http://www.maesto.com>

Email Address: [mwm@maesto.com](mailto:mwm@maesto.com)

Mailing Address: Musikwerkstatt Monschau

Street: Rosental 4

City, State: Monschau, NRW

Zip Code: D-52156

Phone Number: 0049-2472-5122

FAX Number: 0049 2472 4845

Catalog Available: NO (Listings available from website)

Credit Cards Taken: NO (But easy payment is possible)

Minimum Purchase Requirement: NO

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Company Name: [Schmidt's Music Rolls](#)

Owner: Ed Schmidt

Explanation of rolls offered: PianoLodeon rolls and many others

Web Address: <http://www.music-rolls.com/>

Email Address: [eschmidt@crosslink.net](mailto:eschmidt@crosslink.net)

Mailing Address: Schmidt's Music Rolls

Street: 6549 Locust Grove Road

City, State: Easton, Maryland

Zip Code: 21601

Phone Number: (410) 770-4832

FAX Number:

Catalog Available: NO (Listings available from website)

Credit Cards Taken: NO (But easy payment is possible)

Minimum Purchase Requirement: NO

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---

Company Name: [Lazy Dog Piano Rolls](#)

Owner: Scott Boelman

Explanation of rolls offered: Classical music 88 note rolls

Web Address: <http://www.lazydogpianorolls.com>

Email Address: [sboelman@cox.net](mailto:sboelman@cox.net)

Mailing Address: Schmidt's Music Rolls

Street:

City, State: Ladera Ranch, CA

Zip Code: 92694

Phone Number: 949-218-0108

FAX Number:

Catalog Available: NO (Listings available from website)

Credit Cards Taken: NO (By PayPal)

Minimum Purchase Requirement: NO

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Company Name: [PianoMania Music](#)

Explanation of rolls offered: Ragtime, Jazz and Early Blues

Web Address: <http://www.pianomania.com/>

Email Address: [rich@pianomania.com](mailto:rich@pianomania.com)

Mailing Address: PianoMania Music

Street: P.O. Box 1258

City, State: Rocklin, CA

Zip Code: 95677

Phone Number: 916-630-7116

FAX Number: 916-630-7202

Catalog Available: NO (Listing available at web site)

Credit Cards Taken: YES (XX)

Minimum Purchase Requirement: NO (XX)

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Company Name: [Ampico Music Rolls](http://www.ampicorolls.com)

Owner: Ray Smith

Explanation of rolls offered: Used Ampico Music Rolls

Web Address: <http://www.ampicorolls.com>

Email Address: [ray@ampicorolls.com](mailto:ray@ampicorolls.com) or [Ray@NJSurfer.net](mailto:Ray@NJSurfer.net)

Mailing Address: AmpicoRolls c/o Ray Smith

Street: 630 Broad St

City, State: Shrewsbury, New Jersey

Zip Code: 07702

Phone Number: 732-747-7900

FAX Number: 732-747-8885

Catalog Available: NO (Listings available from website)

Credit Cards Taken: YES

Minimum Purchase Requirement: NO



AMPICOROLLS

Player Piano Rolls by American Piano Company

# Sierra Music Rolls

[sierramusicrolls.com](http://sierramusicrolls.com)



**100S OF PIANO ROLLS & NICKELODEON ROLLS • ROLLS COPIED • CUSTOM ROLLS FROM YOUR FILES**



## Sierra Music Rolls

Company Name: Sierra Music Rolls

Explanation of rolls offered: See Graphic Above

Web Address: [www.sierramusicrolls.com](http://www.sierramusicrolls.com)

Email Address: [perforator@sbcglobal.net](mailto:perforator@sbcglobal.net)

Mailing Address: Sierra Music Rolls

Street: 14010 Rim Rock Drive

City, State: Reno, NV

Zip Code: 89521-7347

Phone Number: (775) 853-4659

Catalog Available: YES ( ) NO (x)

Credit Cards Taken: YES (x) NO ( )

Minimum Purchase Requirement: YES ( ) NO (x)

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Company Name: Johnny's Music Rolls

Explanation of rolls offered: Nickelodeon "A," "0," "G," and JAM (John Farrell) rolls

Web Address: <http://www.JohnnysMusicRolls.com>

Email Address: [mottoros@sbcglobal.net](mailto:mottoros@sbcglobal.net)

Mailing Address: John Mottoros

Street: 110 Men Ranch Road

City, State: Sutter Creek, CA

Zip Code: 95685-4133

Phone Number: 209-267-9252

FAX Number: 209-267-9252

Catalog Available: NO

Credit Cards Taken: YES, plus PayPal

Minimum Purchase Requirement: NO

---

Company Name: Hechler Piano & Organ Services  
Explanation of rolls offered: 88 Note Recuts from my personal collection of nearly 800 rolls, including a few Test Rolls and Very Rare Rolls  
Web Address: [www.hechlerpianoandorgan.com/store](http://www.hechlerpianoandorgan.com/store)  
Email Address: [dahechler@hechlerpianoandorgan.com](mailto:dahechler@hechlerpianoandorgan.com)  
Mailing Address: Duaine Hechler  
Street: 1013 Justice Ct  
City, State: Florissant, MO  
Zip Code: 63034  
Phone Number: 314-838-5587  
FAX Number: 314-838-5587 (pre-arranged - fax shared with phone line)  
Catalog Available: Online Shopping Cart  
Credit Cards Taken: YES ( ☐ ) Through PayPal ) NO ( ☐ )  
Minimum Purchase Requirement: YES ( ☐ ) NO ( ☒ )  
Note: As the orders come in, I'm sending off the roll to be scanned in for the first time. Therefore, you receive your roll and I have 9 more for stocking.

---

**EXAMPLE:**

Company Name:  
Explanation of rolls offered: (No Titles)  
Web Address:  
Email Address:  
Mailing Address:  
Street:  
City, State:  
Zip Code:  
Phone Number:  
FAX Number:  
Catalog Available: YES ( ☐ ) NO ( ☐ )  
Credit Cards Taken: YES ( ☐ ) NO ( ☐ )  
Minimum Purchase Requirement: YES ( ☐ ) NO ( ☐ )

---

[Dealers Who Sell Recuts - Duo-Art, Ampico, Welte, etc.](#)

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Player-Care Gladly Accepts These Cards



for questions or comments contact  
[john@player-care.com](mailto:john@player-care.com)

*This page was last revised **April 26, 2010** by John A. Tuttle, who Assumes No Liability  
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Cartoon Graphics by E7 Style Graphics*

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E7Styles Graphics  
732.681.1014

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**Composed and recorded by John A Tuttle.**  
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## ***Block Valves for Player Pianos***

The six most common block valves were made for the following player pianos: Wurlitzer, Ampico, Amphion, Simplex, Aeolian, and Gulbransen. However, the only new ones we stock right now are [Wurlitzer](#), [Ampico](#), and [Aeolian](#). However, we are currently working on a rebuilding kit for the [Simplex](#). It will be listed here as soon as it's available.

### **WurliTzer Block Valves w/gasket**





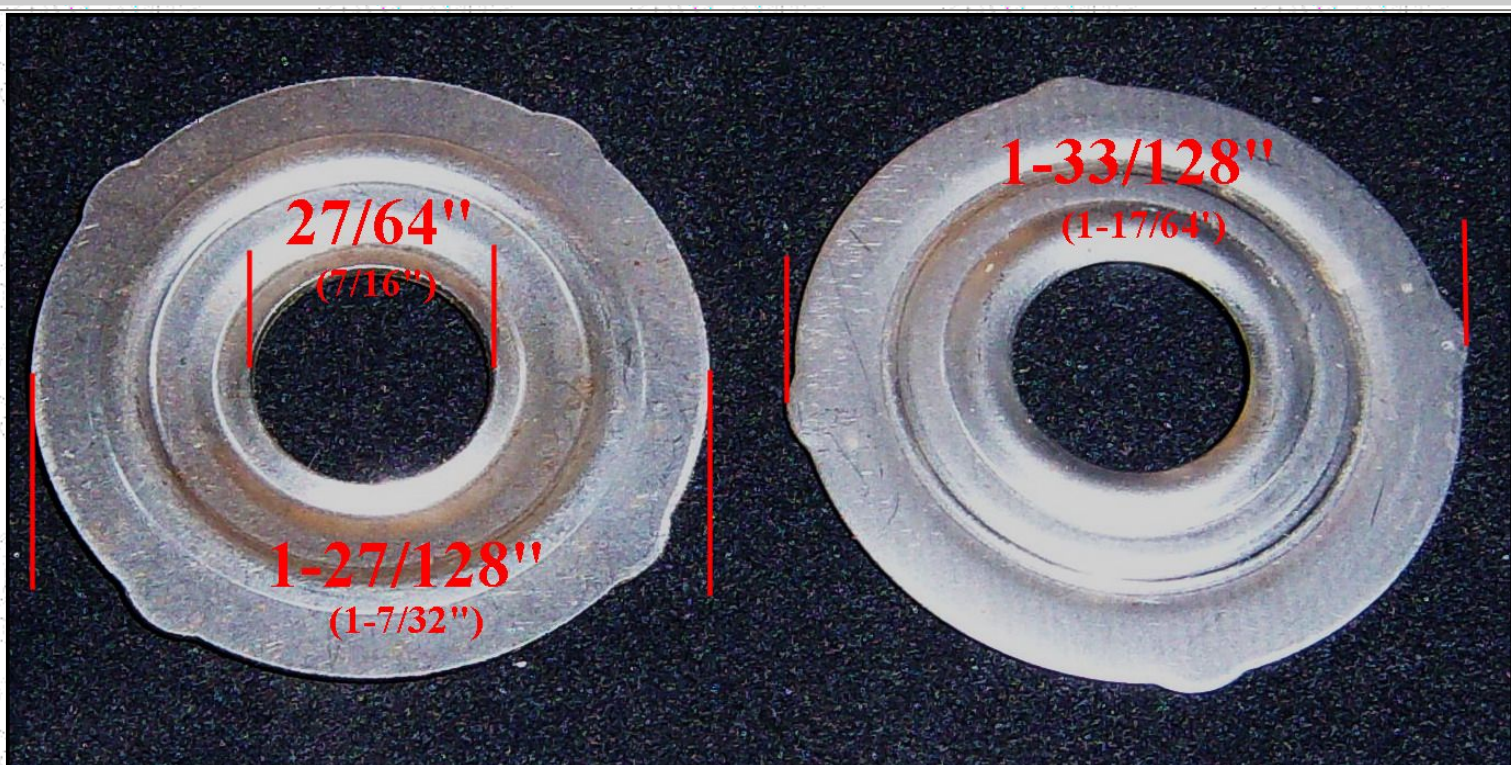


These WurliTzer type block valves are often used in nickelodeon build-ups as well as other [custom-made pneumatic devices](#). Well known for their reliability and longevity, these valve blocks are now available at Player-Care for \$24.85 each or \$245.00/dozen. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#). NOTE: Later models of this block valve have the bleed cup placed in the center of the pouch.

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the number and type/name of blocks you desired in the Comments Box of the order form.

## WurliTzer Block Valve Caps (#WBVC-1)



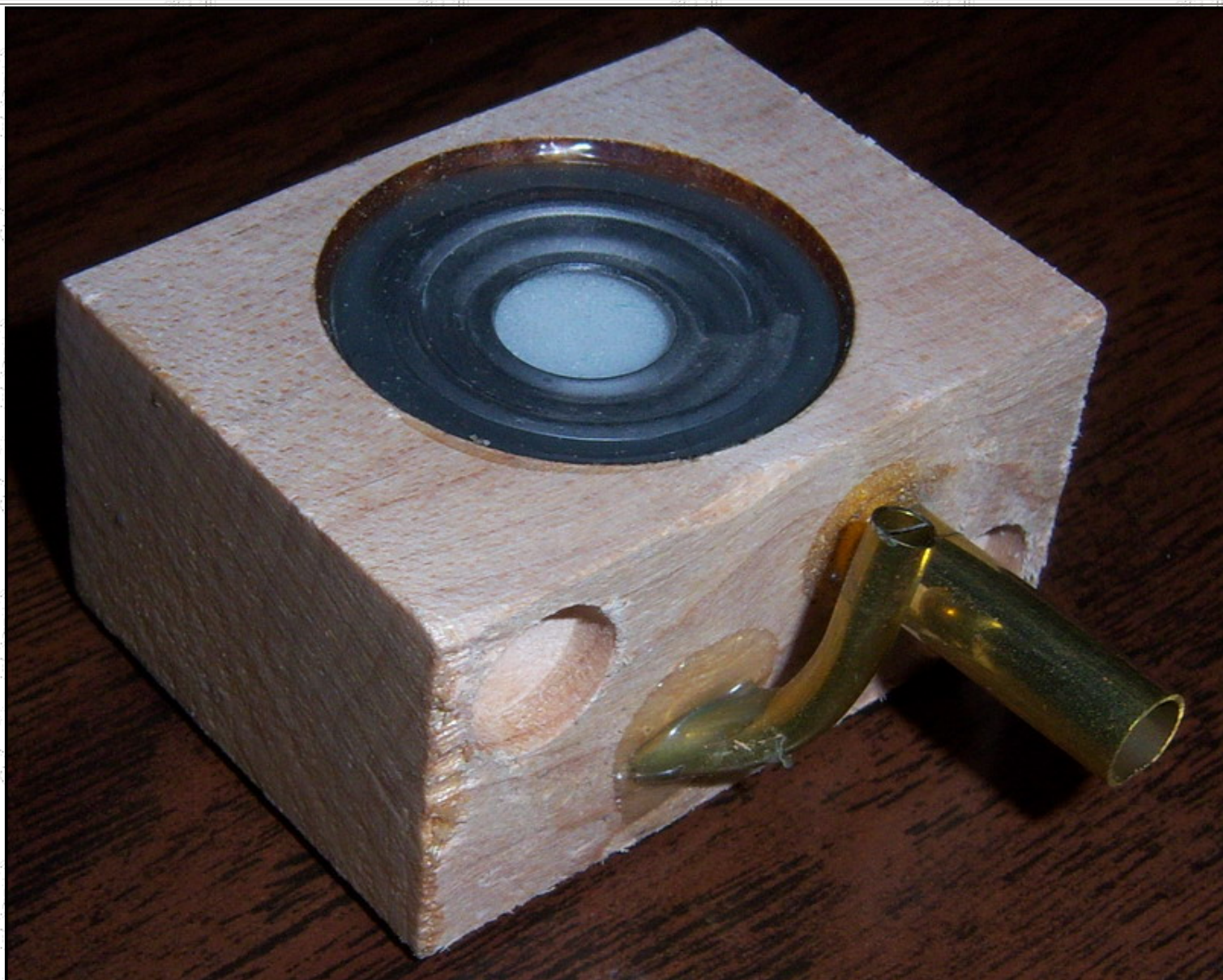


These WurliTzer block valve caps are made out of aluminum. When the original block valves are rebuilt, it's not uncommon for these caps to get bent, making them useless. Cost is \$2.75 ea., \$30.00/doz., or \$225.00/100. (NOTE: These are NOT recycled or old stock. They are brand new parts.) Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. To place an order, [Click Here](#).

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the part number and desired quantity in the Comments Box of the order form.

## WurliTzer Block Valves w/Extra Instrument Hole



These WurliTzer type block valves are also used in nickelodeon build-ups as well as other [custom-made pneumatic devices](#). Identical to the blocks above with the exception of an added 1/4" brass nipple for operating an additional instrument or bellow. These valve blocks are now available at Player-Care for \$26.25 each or \$255.00/dozen. NOTE: This block valve has the bleed cup placed in the center of the pouch and is easily accessible by removing the valve cap and valve. Minimum Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the number and type/name of blocks you desired in the Comments Box of the order form.

## Aeolian (modern) Plastic Block Valves



These block valves are identical in size to the original Aeolian block valves that are found in ALL of the player pianos made by the Aeolian Corporation from 1960 through 1986. However, that is where the similarity ends. The quality of the materials and the construction techniques used to make these new valves is far better than those that were mass produced by Aeolian.

There are five major differences between the new blocks and the original blocks. First, the new ones are repairable! The adhesive used to glue the three sections together, while creating a perfectly air-tight seal, is not so strong that the unit is impossible to break apart without causing irreparable damage. Second, the pouches are better. Since the pouch is more air-tight, there is less vacuum loss. This increases the overall efficiency of the player system. Third, the valve stem is lighter. This makes the valve faster, increasing the repetition characteristic of the unit. Fourth, the valve clearance is set to 0.035". As compared to the original units, which were gapped anywhere from 0.040" to over 0.050", the narrower valve gap significantly decreases the transient losses that occur as the valve changes state (from "Off" to "On" and back to "Off"). Fifth, instead of a glued-in nipple that was pointed either left or right, the nipple is placed in middle of the block. Also, an 'adjustable' elbow is used instead of a straight nipple. This allows the user to point the nipple in any direction that is desired, making it 'universal'.

Although the new block valves may seem a little pricey, they are worth every penny. Each valve is thoroughly tested before it is sold. Each valve block is unconditionally guaranteed for five years. So, if you are not 100% satisfied, send it back for a replacement or a refund. Upon request, we will also include the [Mounting & Repairing Instructions](#), and there is now information on that web page about Testing a Block Valve.

The cost per block is \$17.95. However, there is a minimum purchase requirement of TWO blocks. The minimum Shipping Charge is \$8.95 for USPS Priority mail/w Delivery Confirmation. The cost for 20 blocks is \$320.00. The cost for 100 blocks is \$1350.00 (Have a Question? Write to John A. Tuttle - [Click Here to Send an Email](#))

**Available while they last: We have purchased a small cache of original Aeolian block valves that were never used. They came from the Classic Player Piano Co. after they purchased the rights to**

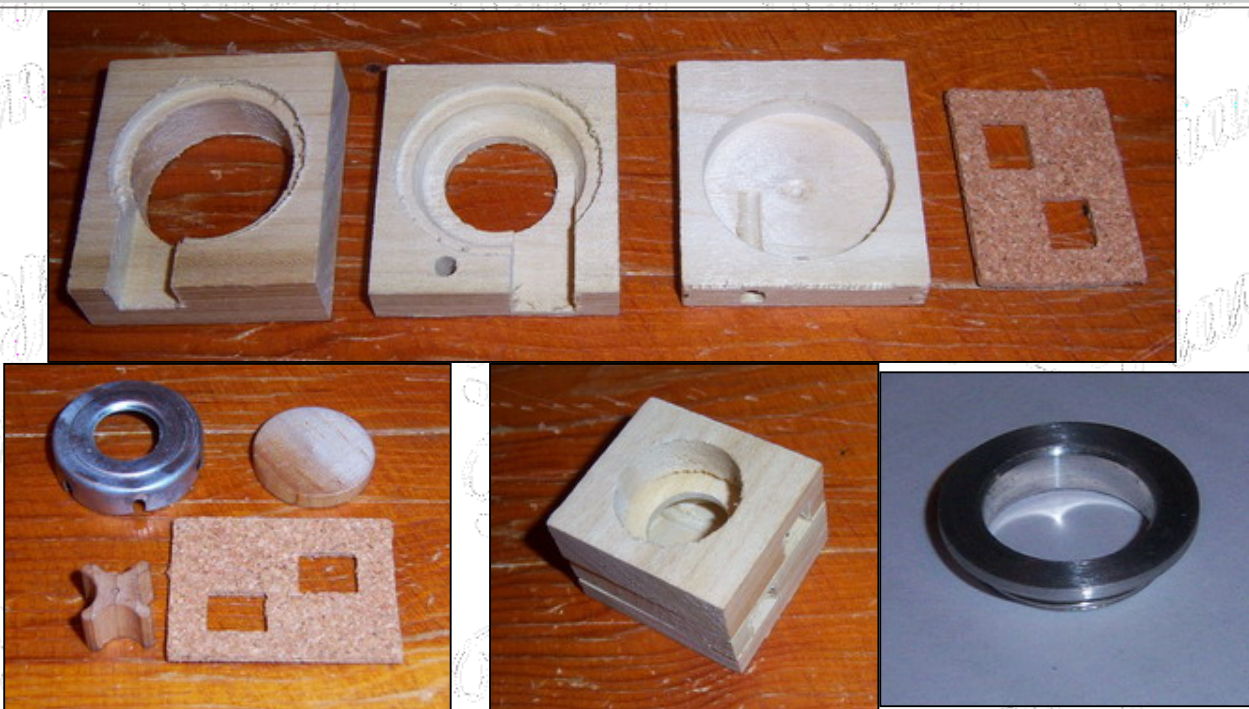


the Universal player mechanism in the 1990's. If you're interested in any of these blocks, visit the [Original Aeolian Block Valves page -click here.](#)

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the number and type/name of blocks you desired in the Comments Box of the order form.

## Ampico B Block Valve Parts



Ampico B Block Valve parts are now available at Player-Care. Manufactured to exacting tolerances, they are identical in every aspect to the original Ampico B block valves. They ARE NOT and WILL NOT be assembled for you. Also, we DO NOT supply the leather for the valve facings, the pouches, or the ball bleed. Cost: \$16.50 each. (Limited Supply) Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. Insurance is additional. The 1/16" die-cut block valve gaskets are now available for \$0.75 ea. or \$60.00/90. Also, to replace the Bakelite valve seat with the [aluminum valves seats -click here.](#) All other parts will not be NOT sold individually.

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the number and type/name of blocks you desired in the Comments Box of the order form.

## Simplex Black Valve Caps #SBVC (Exhaust Valve Seat)



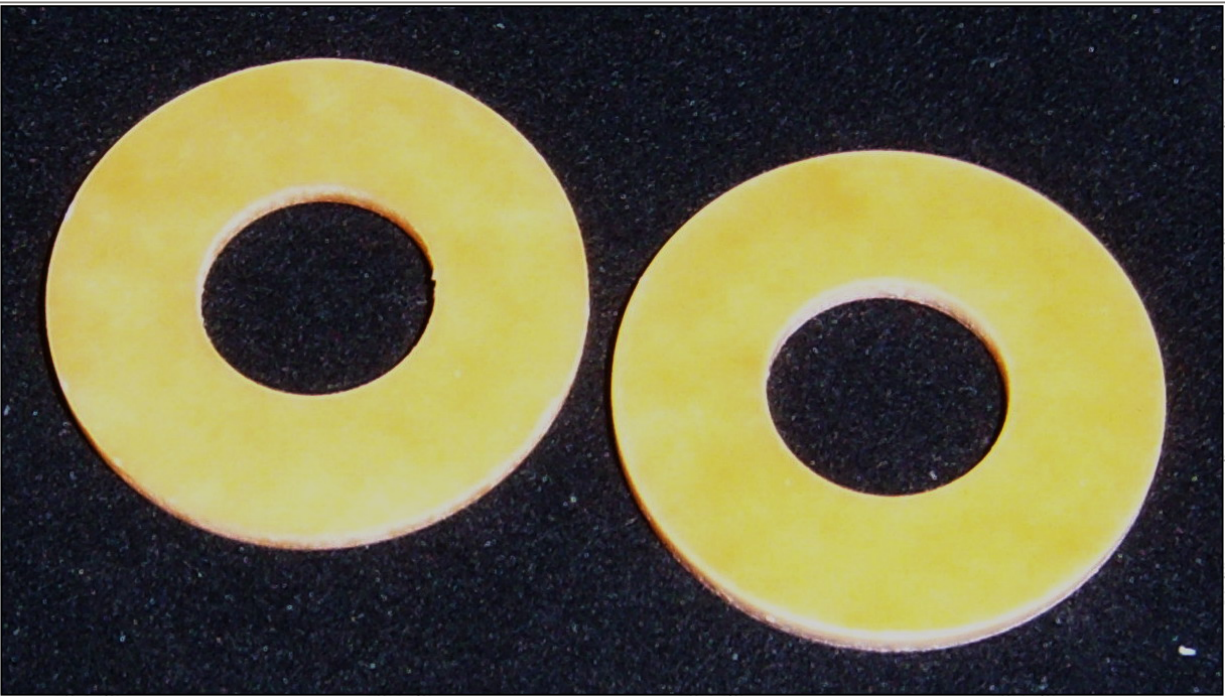


These Simplex Block Valve Seats (or Caps) are custom made for Player-Care. They have never been available from any manufacturer since Simplex went out of business about 90 years ago. As a result, rebuilders have been forced to use flat pieces of Formica-type materials, which do not perform the same as the original seats. The main advantage of a seat like this is that a minimum amount of energy is needed to create a seal, which also improves the repetition rate. With a flat seat, the pouch has to push harder to seal the entire area of the valve facing. This can be difficult since it demands that the facing be perfectly flat, like the seat. Cost is \$2.55 ea., \$27.50/doz., or \$210.00/100. Minimum shipping is \$6.95 within the US. \$15.00 minimum purchase requirement applies.

To Place An Order - [Click Here for the Secure Order Form!](#)  
Type the name and number of caps you desired in the Comments Box of the order form.

## **Simplex Black Valve Caps #SXPC (Exhaust Valve Seat)**





These Simplex Block Valve Seats (or Caps) are punched from XPC Phenolic material, which is extremely flat and smooth. Although a higher quality part, they are basically the same as the caps that were sold by Player Piano Co.. Cost is \$0.48 ea., \$4.61/doz., or \$38.40/100. Minimum shipping is \$6.95 within the US. \$15.00 minimum purchase requirement applies.

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the name and number of caps you desired in the Comments Box of the order form.

## Simplex Block Pneumatic Kit



While they last, Simplex parts are available as a kit for \$19.95. Each kit will contain one each of the following parts. With the exception of the block, all parts are new. Shipping charge is \$6.95 within the US and \$35.30 to most overseas countries. (NOTE: Completed valves are NOT sold separately. It is only shown for demonstration purposes. Also, with the exception of the gasket and the fluted valve stem material, none of the parts are sold separately.)

- Used Block
- Gasket ([also sold separately-click here](#))
- Bellows Cloth ([also sold separately-click here](#))
  - Exhaust Valve Facing
  - Intake Valve Facing
- Fluted Valve Stem ([also sold separately-click here](#))
  - Fiber Valve Disk
  - Valve Lifter Disk
  - Leather Pouch

The kit does not contain the striker finger or the mounting screws. However, a limited number of metal striker fingers are available for \$1.00 each and screws are available for \$0.50 each.

To view the method that I use for dismantling the Simplex block valves, [click here](#)

To Place An Order - [Click Here for the Secure Order Form!](#)

Type the number of kits you desired in the Comments Box of the order form.

We Gladly Accept These Cards







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*This page was last revised **October 14, 2014** by John A. Tuttle, who Assumes No Liability  
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Cartoon Graphics by E7 Style Graphics (Eric Styles)*

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Since "Player-Care" is an internet business, I prefer that we correspond via [E-Mail \(click here to fill out the 'Request Form'\)](#). However, if I'm not in the middle of some other activity, you can reach me at 732-840-8787. But please understand that during the hours from 8AM-5PM EST (Mon-Sat), I'm generally quite busy. So, I probably won't answer the phone. If you get the answering machine, please leave a detailed message stating the reason for your call. Also, repeat your name and phone number clearly and distinctly. By necessity, I prioritize everything in my life. And, if you call and just leave your name and number, and ask me to call you back, it might be a day or two before I return your call. Why? Because I don't know why you want me to call and I might not be prepared to assist you in an effective and efficient manner. If you leave me an E-Mail address (which I prefer), spell it out phonetically. The more you do to help me, the more I can help you in return. Don't rush. You have four minutes to record your message.

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Phone Number 732-840-8787



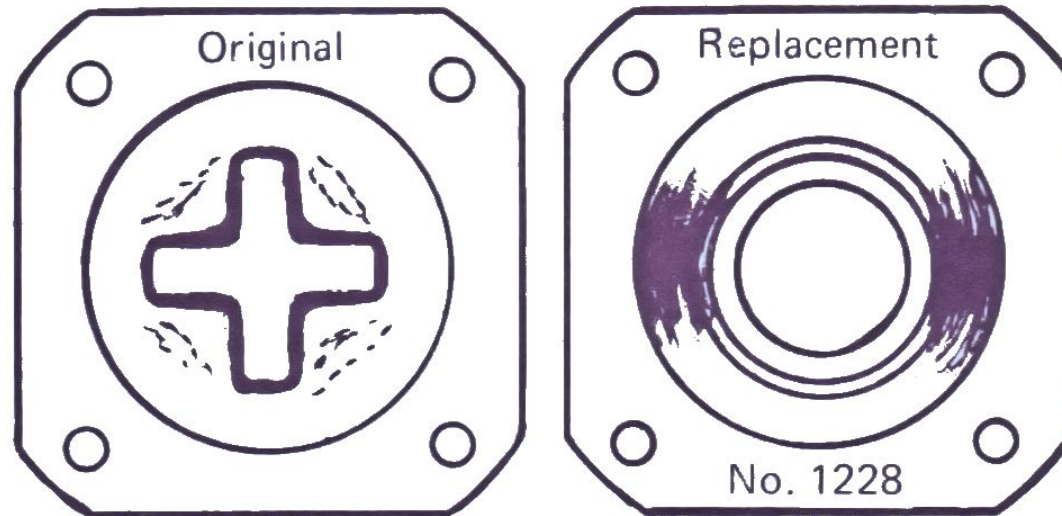
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## *Player Piano Valve Plates and Valve Parts*

[Lifter Disks](#) [Force-Fit Collars](#) [Valve Seats](#) [Valve Facings](#) [Hard Disks](#) [Exhaust Valve](#)

### *Aeolian - Duo-Art Valve Plates*

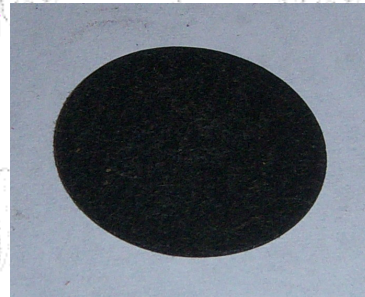
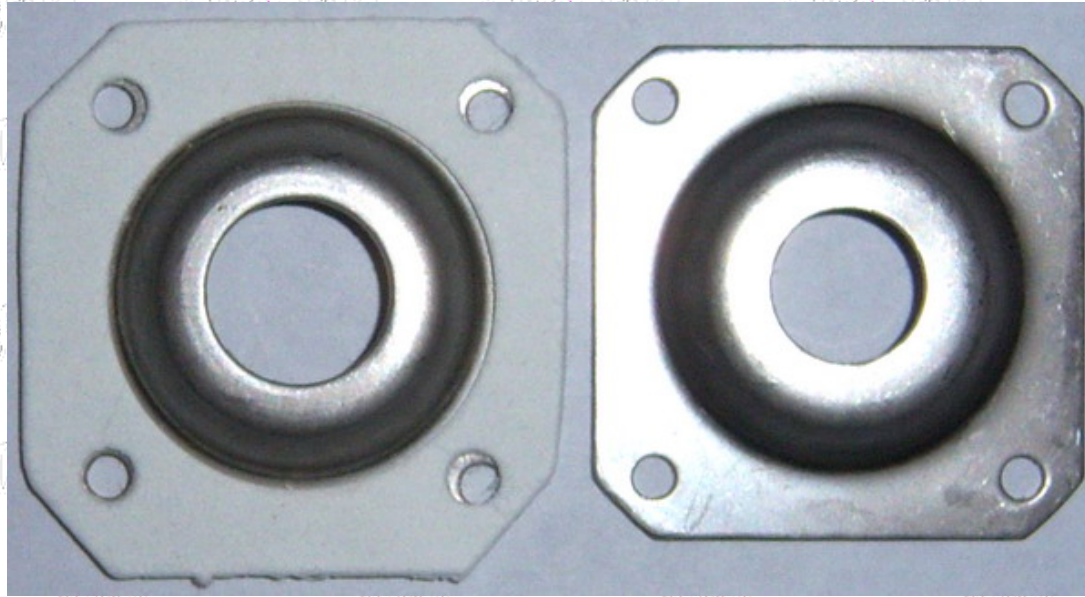


VALVE PLATE replacement for Aeolian "cross valves". The original soft aluminum stampings have been a curse to everyone who has tried to work on this type. The original valves cannot be resurfaced because the center corners spring upwards with pressure of resurfacing, and less metal is taken off the tips of the cross; whereas if it was perfectly round, as in most conventional valve plates, the valve seat surface would be uniformly rigid, and resurfacing them would not be a problem. Therefore, an exact replacement was manufactured, using a circle to seat against the valve leather instead of the cross shape. It is felt that this replacement is better than the conventional design even though the cross type could have been made from a heavy gauge steel.

The new replacement is identical in size to the original, with a 1/2" circle opening or a 7/16" opening, sunken 3/16", for clearing the 1-1/8" valve well. Made from stainless steel. This part was available from Player Piano Co. in 2001 for \$3.00 each or \$225.00/100. We are offering them for the SAME PRICE!!!

Shown below are the two plates that are now available. The plate on the left has a hole diameter of 1/2" and the one on the right has a hole diameter of

7/16". The one on the left is shown with the #1226 blotter gasket, which is available on the [Gaskets Page -click here.](#)



#663 - 3/4" Lifter Disks @ \$9.75/100  
Stiff manila-type paper 0.018"





#973 - 5/8" Lifter Disks @ \$6.50/100  
Stiff manila-type paper 0.022"

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#646 - Force-Fit Brass Collars (for Baldwin Valves): 5/16" OD, 0.081" ID, 1/32" thick: 10-99 @ \$0.25 ea. \$18.75/100

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#1106 - Force-Fit Brass Collars (for Lester Valves): 0.215" OD, 0.078" ID, 0.031" thick: 10-99 @ \$0.25 ea. \$18.75/100

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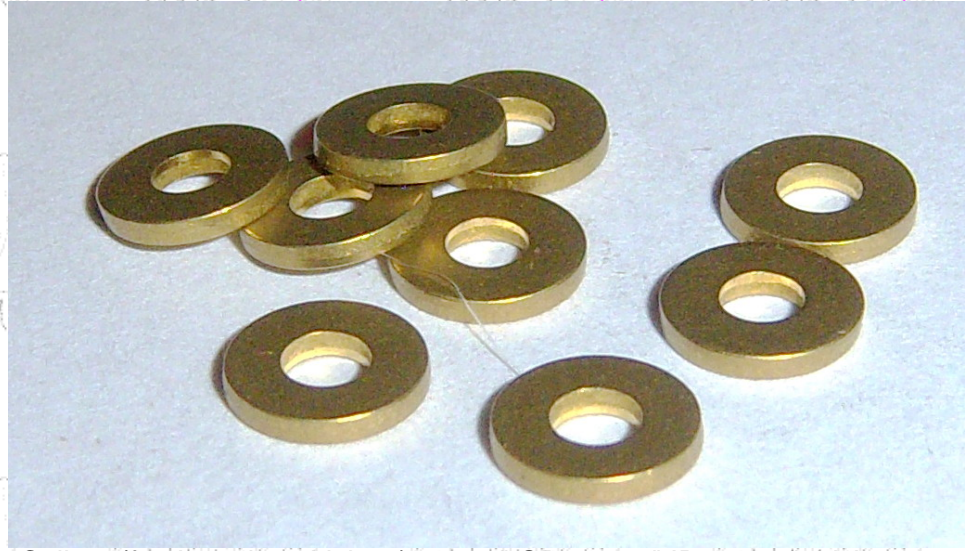
#1107 - Force-Fit Brass Collars (for Price & Teeple Valves): 0.250" OD, 0.084" ID, 0.030" thick: 10-99 @ \$0.25 ea. \$18.75/100

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#1111 - Force-Fit Brass Collars (for Standard Valves): 0.215" OD, 0.088" ID, 0.050" thick: 10-99 @ \$0.25 ea. \$18.75/100

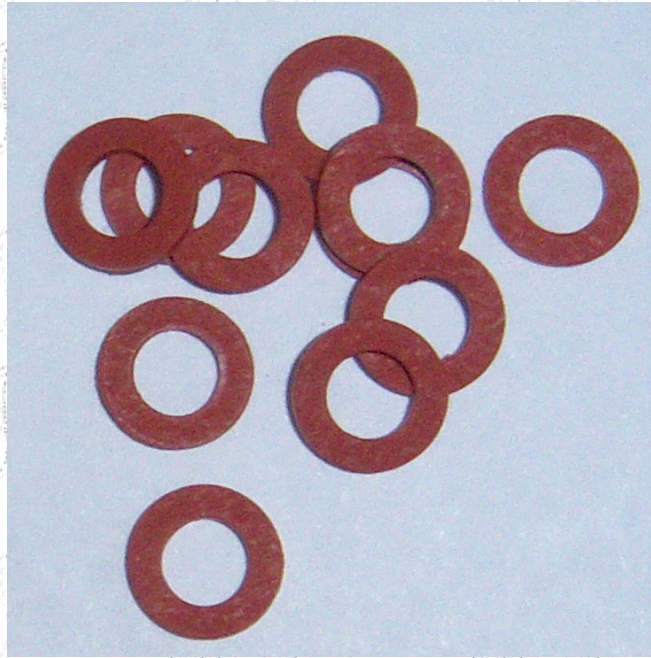


#1156 - Force-Fit Brass Collars (for Autopiano Valves): 0.215" OD, 0.090" ID, 0.031" thick: 10-99 @ \$0.25 ea. \$18.75/100

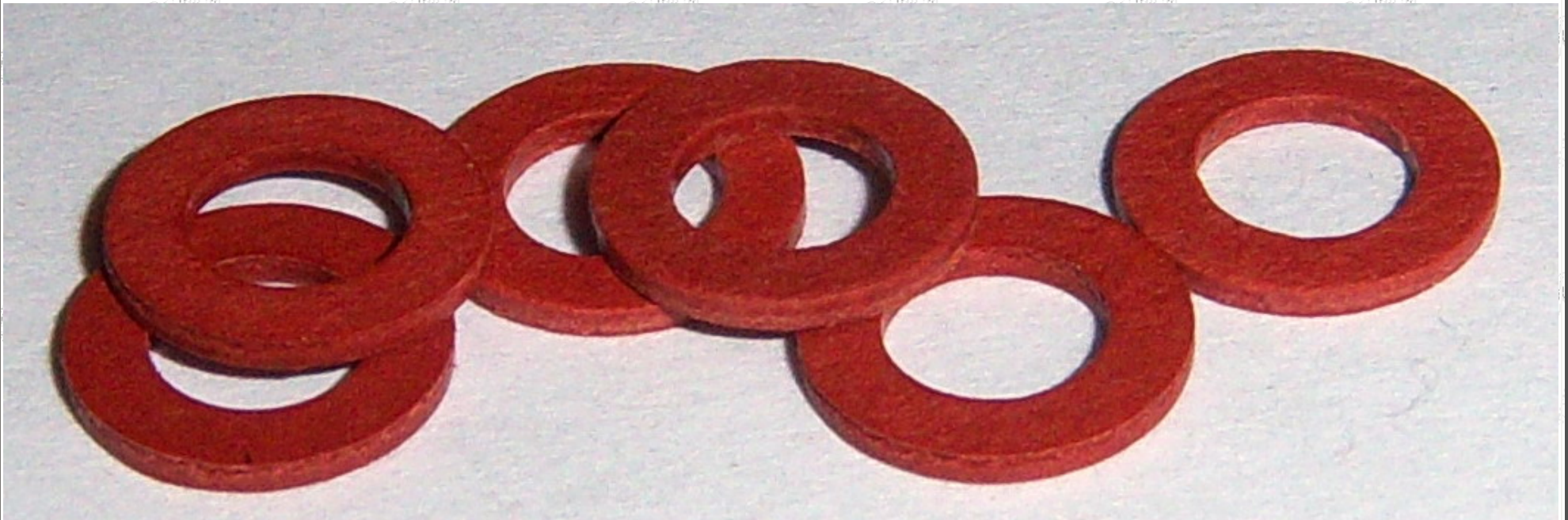


#1173 - Red Fiber Retaining Washer (for Aeolian & Duo-Art valves): 5/16" OD, 0.173" ID, 1/32" thick: 10-99 @ \$0.24 ea. \$18.00/100. Should be 0.004"-0.005" smaller than the wooden valve stem for proper pressure fit.





#1174 - Red Fiber Retaining Washer (for Aeolian & Duo-Art valves): 5/16" OD, 0.176" ID, 0.033" thick: 10-99 @ \$0.24 ea. \$18.00/100. Should be 0.004"-0.005" smaller than the wooden valve stem for proper pressure fit.



#1176 - Red Fiber Retaining Washer (for Aeolian & Duo-Art valves): 5/16" OD, 0.181" ID, 1/32" thick: 10-99 @ \$0.24 ea. \$18.00/100. Should be 0.004"-0.005" smaller than the wooden valve stem for proper pressure fit.

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#1855 - Ampico B Intake Valve Seat for 13/16" dia. valve with 9/16" stem. Fits into 11/16" hole. To replace Bakelite seat in model B Ampico. Made of aluminum. \$2.35 ea. or \$190.00/100. (Limited Supply)

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## *GASKETS for PLAYER PIANOS*

[In Stock Gaskets-Click Here](#)

The three major types of gaskets found in player pianos are made out of either leather, cork, or paper. Of those three, leather gaskets are the most common, and in the vast majority of player pianos you will find a leather gasket anywhere that two pieces of wood are joined to each other with screws or nuts and bolts. The gaskets we provide are made out of high quality cork, cork/rubber, or blotter paper. They are used for sealing [block valves](#) or [valve plates](#) to the stack or other pneumatic device. Also, [Sponge Neoprene Gasket Material](#) is available in a variety of shapes and [Blotter Paper](#) by the square foot. We do not offer leather gaskets. For leather, we recommend [Columbia Organ Leathers](#).

The gaskets listed below are sold individually, or by the dozen, or by the hundred. The gaskets pictured below are not to scale. If you need to know the exact dimensions, contact us via the link below. If the gasket you need is not shown here, we don't carry it yet. However, if enough people request a particular gasket, we will consider adding it to our inventory. So, make your desires known. To contact us -[click here](#). When ordering any of these parts, specify the part name or number and the quantity. Please use the [Secure Order Form -Click Here](#). Minimum shipping is \$6.95.

Picture	Gasket / Make	Material	Each	Dozen	Hundred
	#410 / Wurlitzer	Cork (1/16")	\$0.75	\$8.50	\$65.00
	#412 / Simplex	Cork/Rubber (1/16")	\$0.75	\$8.50	\$65.00
	#416 / Gulbransen (3 tier)	Cork/Rubber (1/16")	\$0.90	\$10.00	\$78.00
	#418 / Artemis	Cork/Rubber (5/128")	\$0.90	\$10.00	\$78.00
	#587/ Ampico w/o bleed <a href="#">See NOTE</a> and Amphion	Cork/Rubber (1/16")	\$0.75	\$8.50	\$65.00
	#588 / Ampico (later model)	Cork/Rubber (1/16")	\$0.75	\$8.50	\$65.00

	Ampico 'B'	Cork (1/16")	\$0.75	\$8.50	\$65.00
	<a href="#">#589 / Ampico Intensity Valve Gaskets</a>	Cork/Rubber (1/16")	\$17.50	N/A	N/A
	#1226 / Aeolian (For Cross Valve)	Blotter (0.020")	\$0.42	\$4.75	\$36.50
	#1227 / Aeolian	Cork/Rubber (3/64")	\$0.59	\$6.65	\$52.00
	Aeolian Upright	Blotter Paper (0.020")	\$1.02	\$9.60	\$75.00





#1234 / Lauter-Humana

Cork/Rubber  
(1/16")

\$0.80

\$8.75

\$74.00

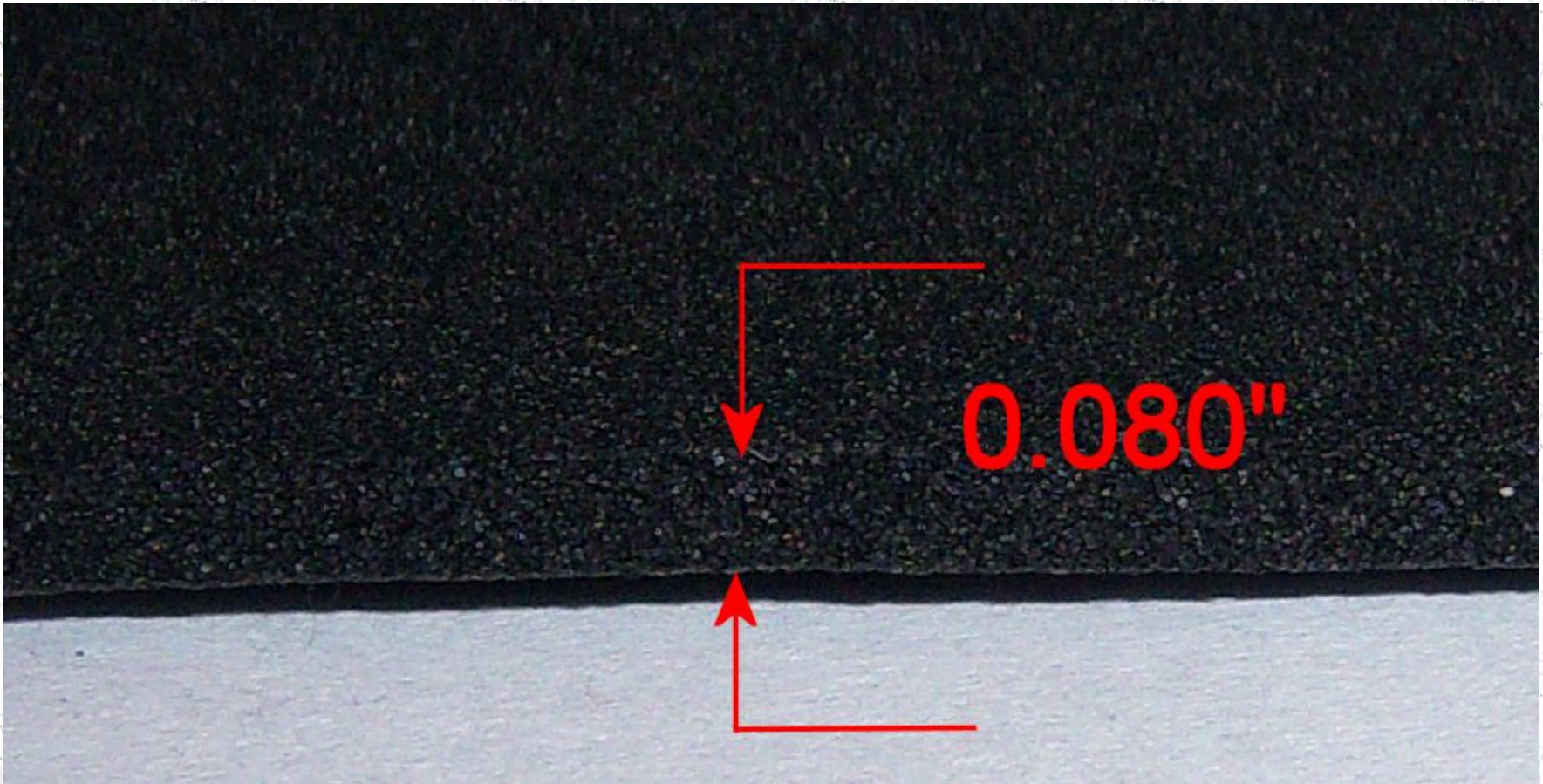
This set of four gaskets are for the four intensity valves on the Ampico 'A' Expression Mechanism (see Page 8 of the [1923 Ampico 'A' Inspector's Reference Book](#)). The original leather gaskets are normally glued to the valve block and must be removed when the block is restored.

These are the gaskets that are used with the Ampico 'A' block valves in the system that has both primary and secondary valves. They can also be used with the early system, where the bleed is contained in the block, by punching a notch in the gasket, as shown below, with a rotary arc punch. Also the same gasket that is used with the Amphion upside-down block valves. If you don't have a rotary arc punch, we will punch the notch in the gaskets for an additional \$0.05/gasket.



## ***Sponge Neoprene Gasket Material***

We are considering cutting strips that are narrower and longer than those that are currently available. If this is something you might be interested in, please let us know by filling out the special form -[click here](#).



Sponge Neoprene Gasket Material (also called closed-cell neoprene) has become very popular among many professional rebuilders since the late 1990's. This material is easy to work with, creates an excellent air-tight seal, and it conforms well to slight irregularities. Its primary advantage over other types of gasket material is its compressibility. Material that is 0.080" will easily compress down to 0.025". (Maximum compression to 0.012".) Available in the following sizes:

(1/16") 6" x 24" strip for \$6.05 (or 1/8" piece for \$9.68)

(1/16") 4" x 48" strip for \$8.07 (or 1/8" piece for \$12.91)

(1/16") 4" x 52" strip for \$8.75 (or 1/8" piece for \$14.00)

(1/16") 6" x 36" strip for \$9.07 (or 1/8" piece for \$14.51)

(1/16") 6" x 46" strip for \$11.59 (or 1/8" piece for \$18.54)

(1/16") 12" x 24" strip\* for \$12.10 (or 1/8" piece for \$19.36)

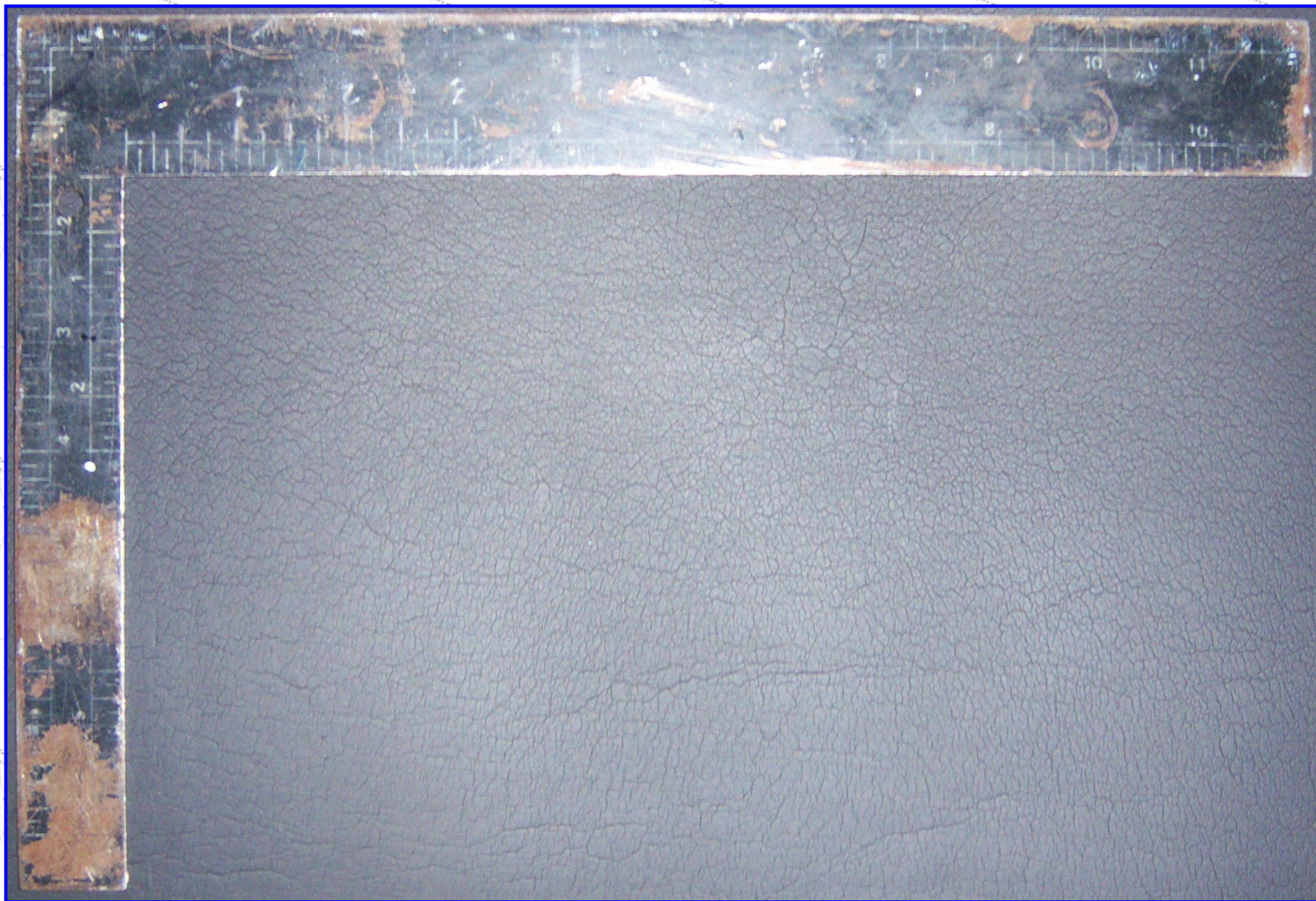
\* both are folded in thirds for shipping

NOTE: 1"-2" wide strips up to 48"+ occasionally available

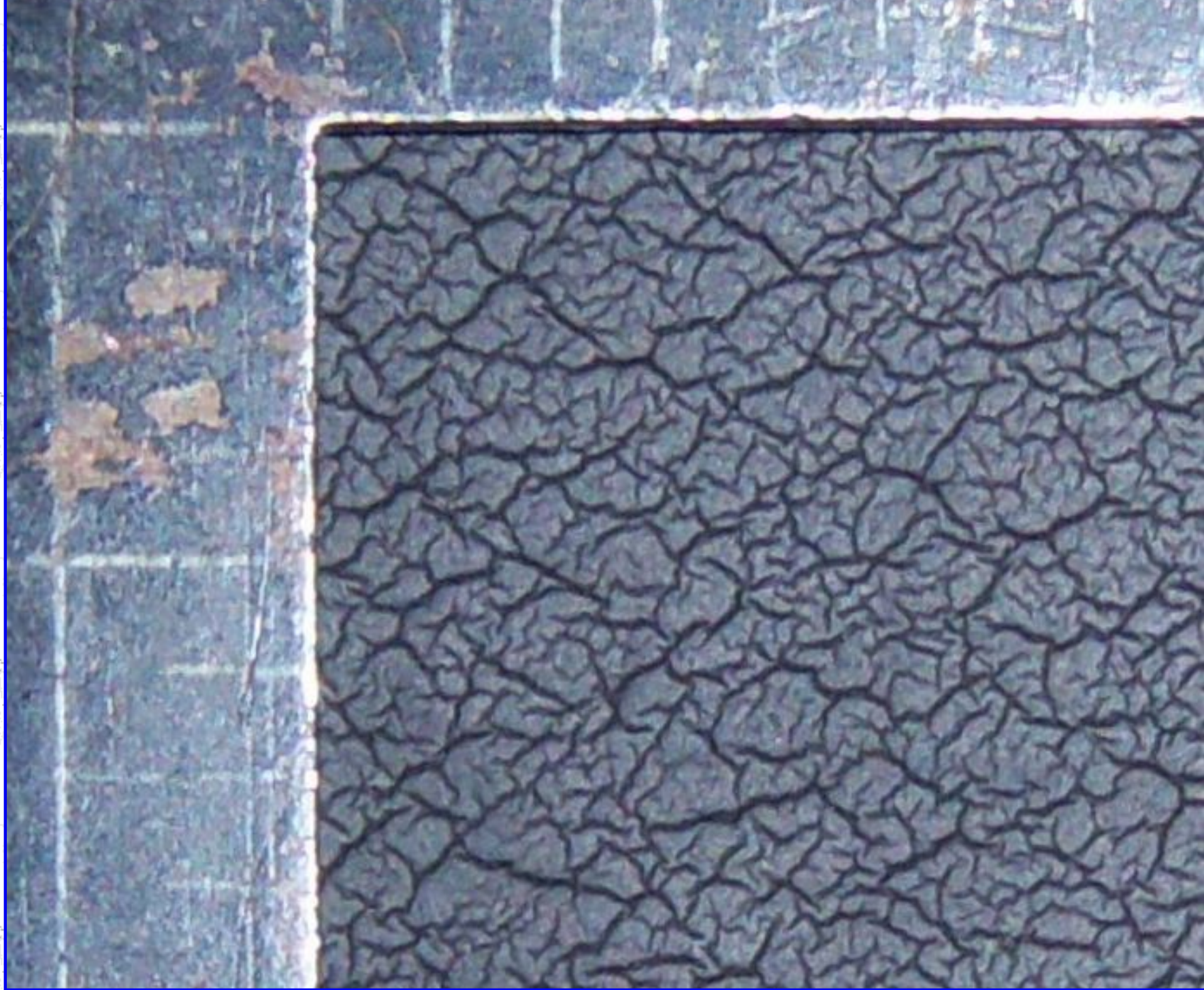
When ordering, specify the size and the number of strips. Please use the [Secure Order Form](#)  
[-Click Here](#)

We're also offering a different type of sponge neoprene material called "Skin". As you can see in the pictures below, it's called 'skin' because it looks like ... skin. The 'skin' texture is only on one side of the material. The other side is regular closed cell neoprene. You can click on any of the pictures to see a blow-up of what the material looks like close up. The first picture shows an area that is 6" x 12". The second picture shows an area that is 1" x 1". The third picture shows what a one inch piece looks like when glued to glass with ONE DROP of PVC-E glue. As you can see, the texture is completely filled in by the glue. There are no voids. This type of material is excellent for gaskets where two softer woods, like poplar or birch, are joined. Examples are things like the access panels on reservoir bellows and air motor governors. This material is NOT available in long strips. The maximum size of any one piece is two square feet (12" x 24"), which sells for \$10.00.

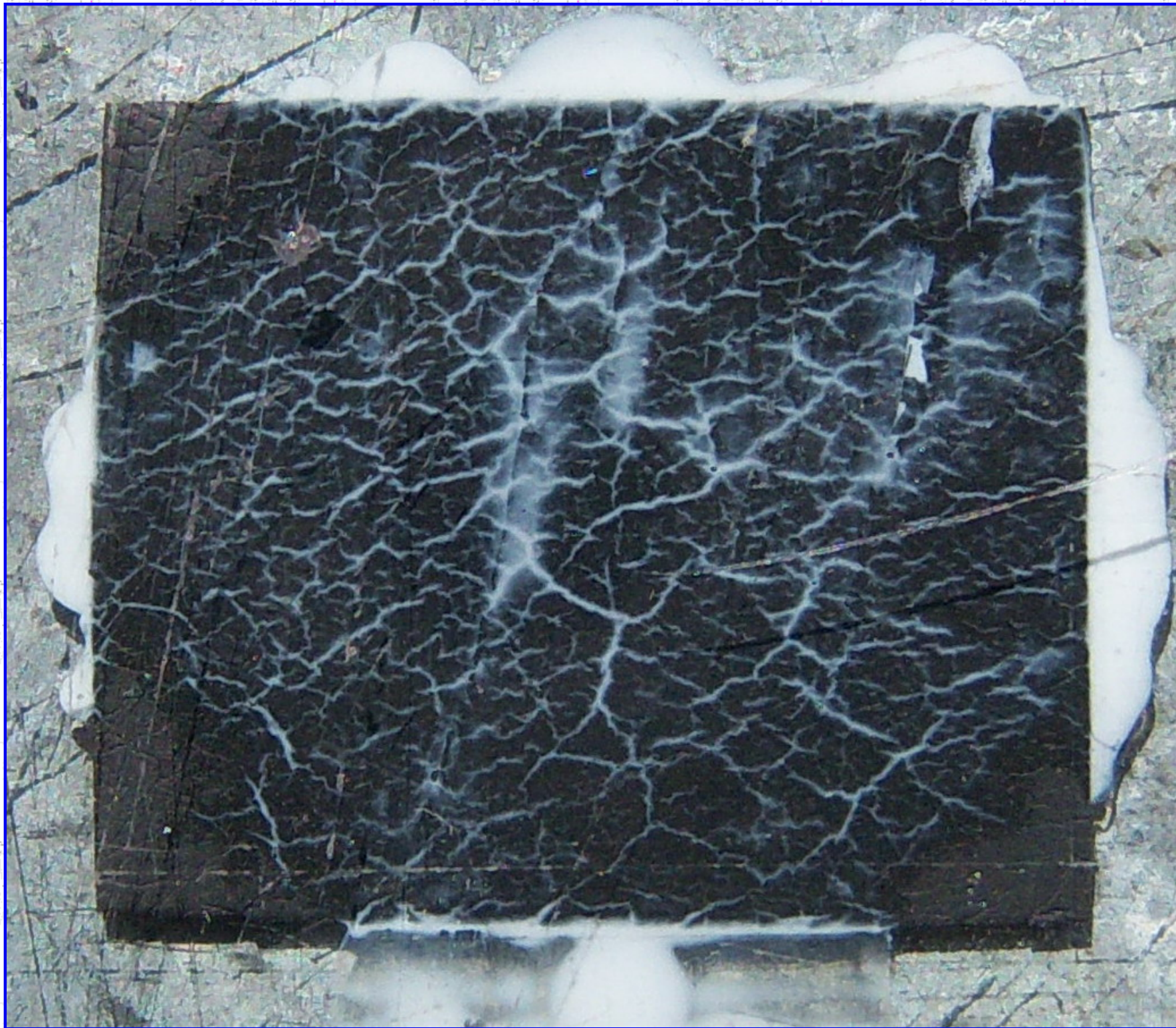








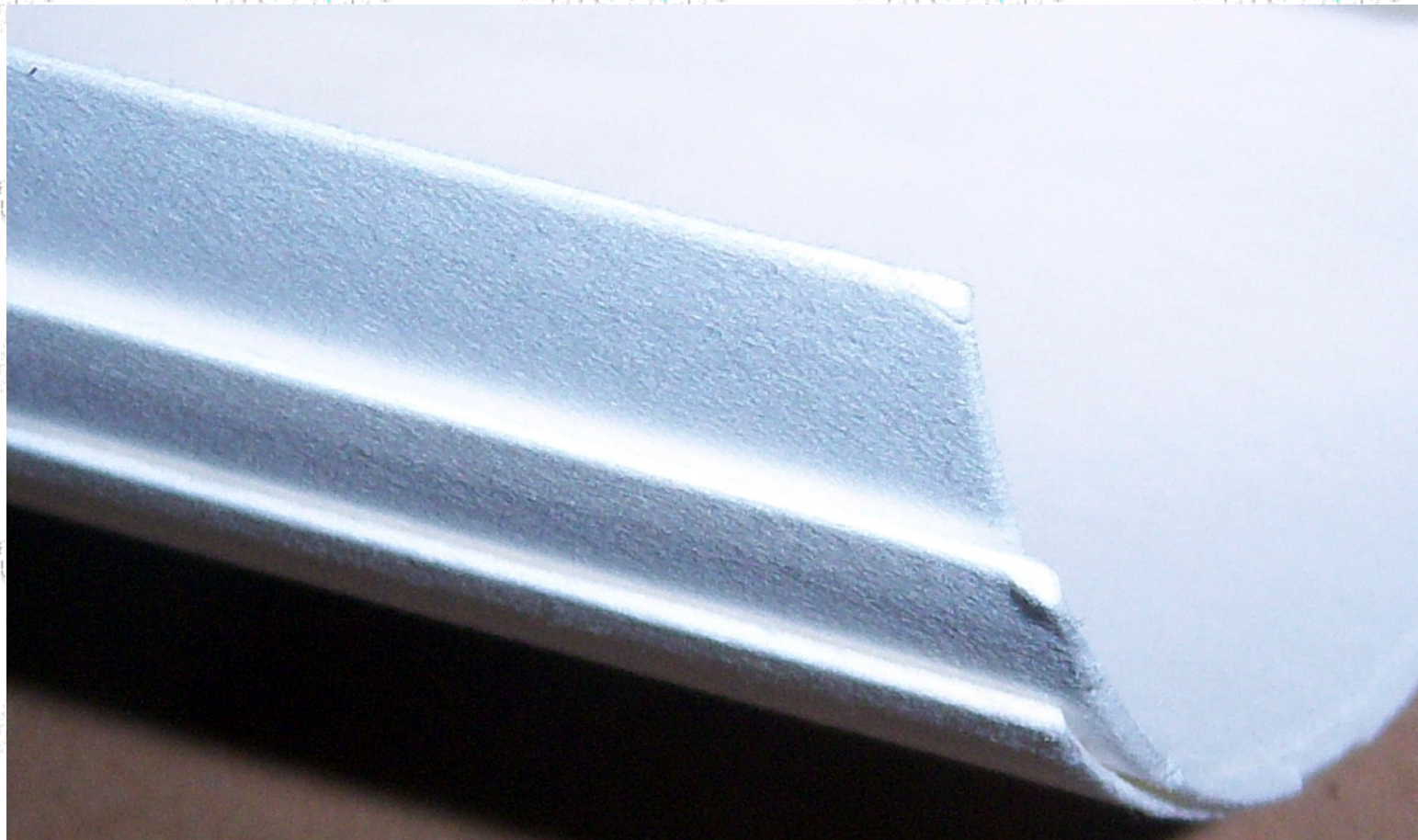




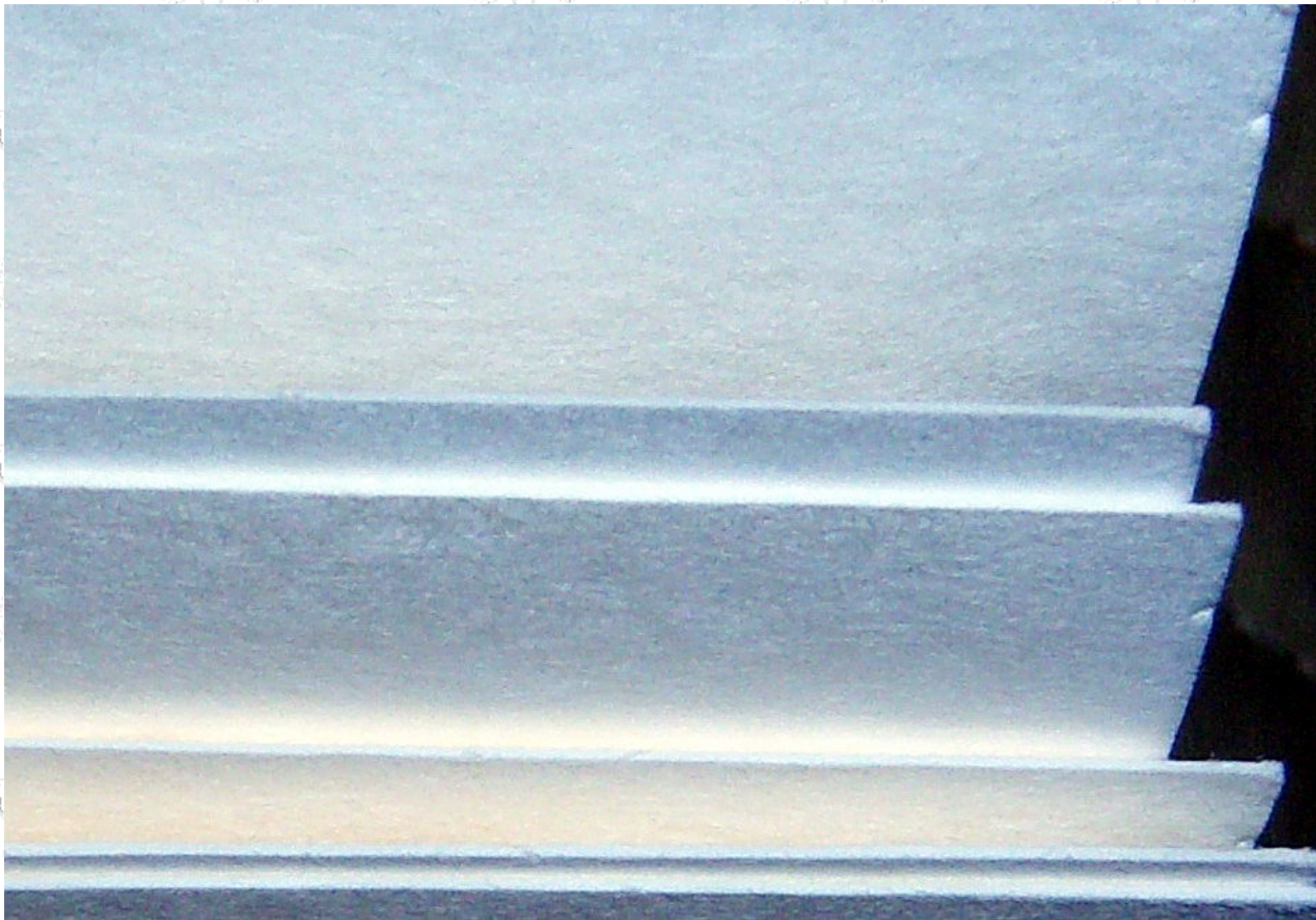


## ***Blotter Paper for Gaskets***

This is very high quality blotter paper that has been specifically selected for use as gasket material in player pianos. It is available in two thicknesses: 0.032" and 0.020". The thicker material, which is 100% rag cotton, is most often used where two pieces of wood are joined together. The thinner material, which is unbuffered alpha cellulose, is what is most often used for the gaskets under metal valve plates. The cost for the thicker material is \$5.30 per square foot. (Sheet size: 18-3/4" x 24"). The cost for the thinner material is \$3.28 per square foot. (Sheet size: 23-3/4" x 37"). We will cut any size piece you want up to the maximum size of the sheet for \$1.50/cut. We will NOT cut any strips narrower in width than 1" (one inch). Also, we will NOT custom make gaskets.







**[Player Piano Reference Materials - Click Here](#)**

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## ***New Parts for AMPICO Reproducing Player Pianos***

[Ampico 'A' 3/8" ID Drawer Hoses \(set of 3\)](#)

[Ampico 'A' Expression Valve Bushing](#)

[Ampico 'A' Function Switches](#)

[Ampico 'A' Intensity Valves Gasket Set](#)

[Ampico 'A' Motor Mounts](#)

[Ampico 'A' Primary Valve Button](#)

[Ampico 'A' Pump Spill Valve Springs](#)

[Ampico 'A' Stack Flange](#)

[Ampico 'A' Tempo Slide Plate](#)

[Ampico 'A' Transmission Frame](#)

[Ampico 'A' Valve Block Springs](#)

[Ampico Valve Block Plates \(Exhaust\)](#)

[Ampico 'A' Valve Block Seats \(Intake\)](#)

[Ampico 'B' Block Valve Gaskets](#)

[Ampico 'B' Block Valve Parts & Gaskets](#)

[Ampico 'B' Expression Clamp Springs](#)

[Ampico 'B' Forward Roll Brake Drum](#)

[Ampico 'B' Pump Spill/Crescendo Springs](#)

[Ampico 'B' Reroll Brake Drum](#)

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### **Ampico A Pump Spill Valve Spring**

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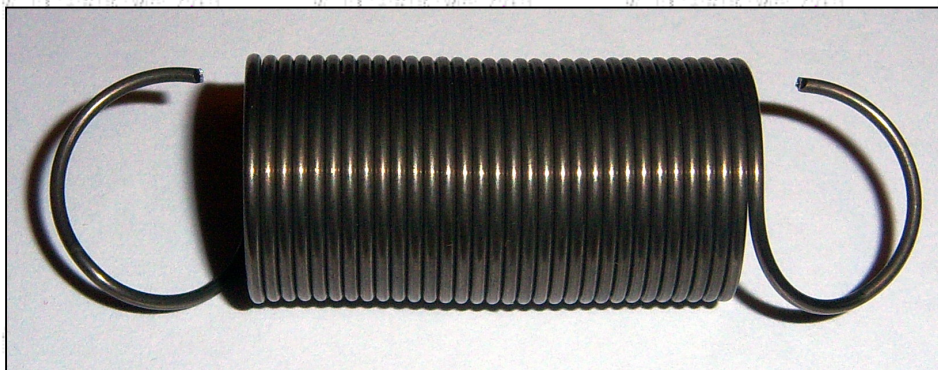


"Ampico A Pump Spill Valve Springs" are now available at Player-Care. Made from high quality spring steel. They are specifically designed and fabricated to replace the often over-stretched springs found in virtually all Ampico A rotary vacuum pumps. After years of testing, it was found that the non-linearity of most Ampico expression systems was directly related to the non-linearity of the pump spring. Cost: \$11.00 each for the "A" springs (two required). The "A" spring can also be used to replace the often over-stretched Ampico "A" crescendo spring. Shipping charge is \$6.95 within the US and \$26.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

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### **Ampico B Rotary Pump Spill Valve (or Crescendo) Spring**

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"Ampico B Rotary Pump Spill Valve Springs" are now available at Player-Care. Made from high quality spring steel. They are specifically designed and fabricated to replace the often over-stretched springs found in virtually all Ampico B rotary vacuum pumps. After years of testing, it was found that the non-linearity of most Ampico expression systems was directly related to the non-linearity of the pump spring. (See [NOTE](#)) Cost: \$14.50. Shipping charge is \$6.95 within the US and \$26.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

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## Ampico A/B Block Valve Springs

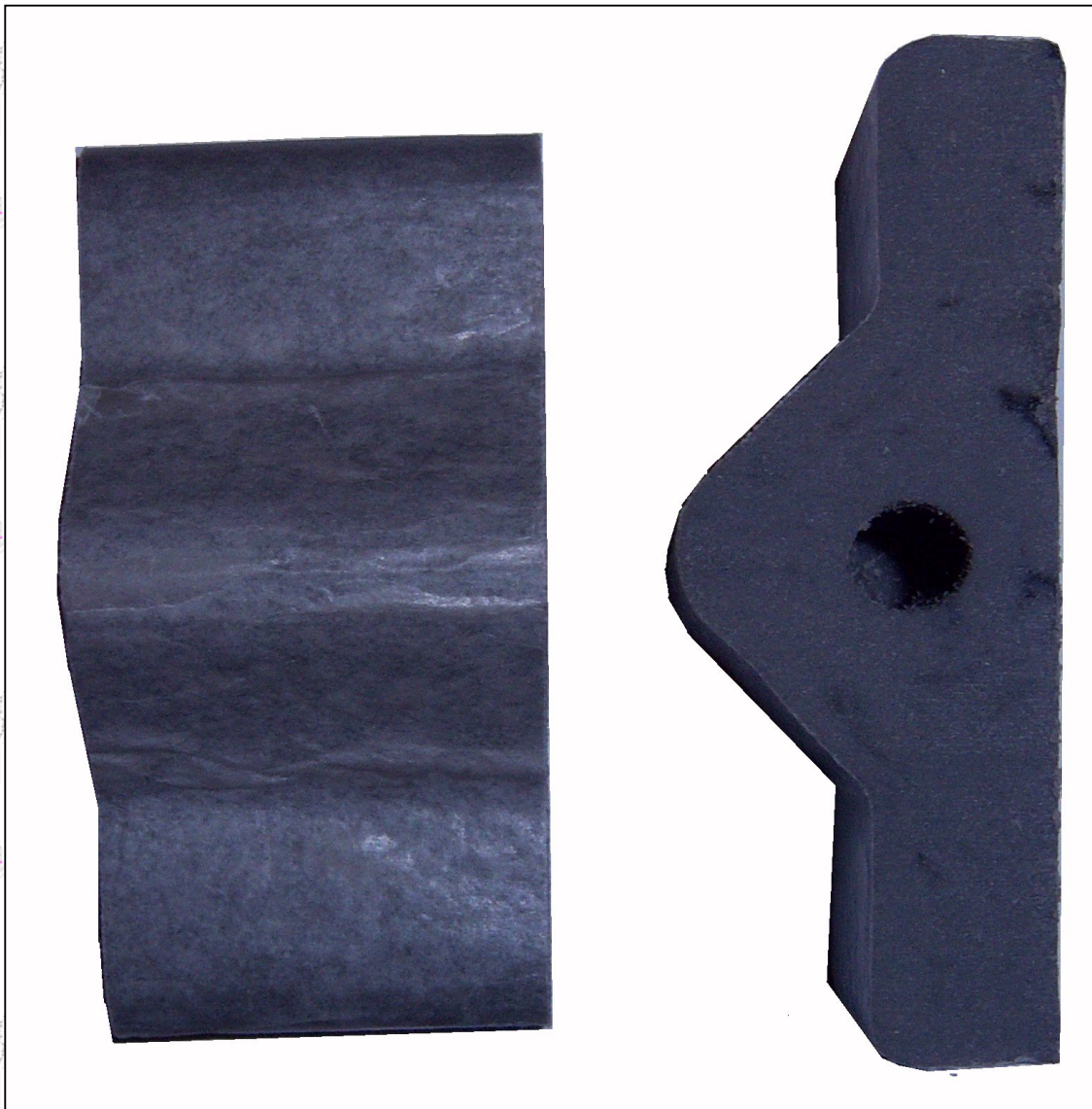
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"Ampico B Block Valve Springs" parts are now available at Player-Care. Made from high quality spring steel. They are identical to the springs found in the Ampico B system. Considered by professionals to be far superior to the solid springs found in the Ampico A system because they apply a more uniform pressure to the wooden block valve. Highly recommended for replacements when rebuilding an Ampico A. Cost: \$1.35 each. Sets of 50 for \$60.00. Shipping charge is \$6.95 within the US and \$26.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

## Ampico Motor Mounts (SEE \*NOTE\*)

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"Ampico Rubber Motor Mounts" are now available at Player-Care. These parts are made from high quality rubber. Specifically made as replacements for the original motor mounts which are often cracking or deteriorated. Only available in sets of four. Cost: \$52.00. \*NOTE\*: Holes for the rods are drilled out, but the holes for the screws are NOT drilled out. (Screws holes are easily drilled out using your bracket as a guide and a standard drill bit and an electric drill.) Shipping charge is \$6.95 within the US and \$26.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

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### Ampico Transmission Frame

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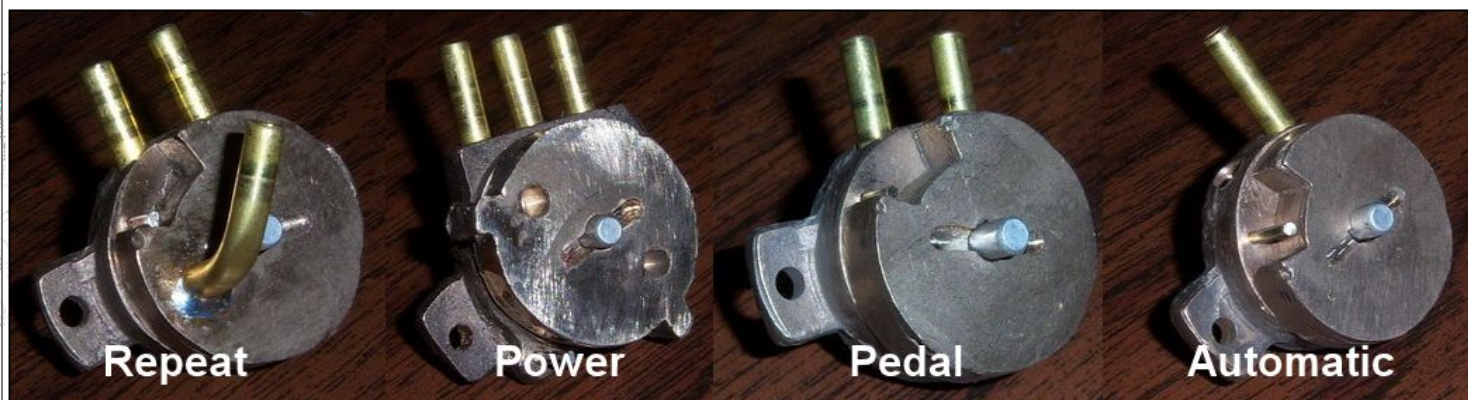


"Ampico Transmission Frames" are now available at Player-Care. This is the frame that is found in every Ampico A reproducing player piano. The frame is made of solid brass and machined by hand. Excellent craftsmanship to exacting specifications. Cost is \$244.50. Shipping charge is \$13.45 within the US and \$34.50 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

Please be careful when handling the transmission or you will bend it out of alignment. Do not drop. When putting small shaft in, make sure all parts are on shaft, and support transmission on wooden block when driving shaft into small gear. Also, plug the two original transmission mounting screw holes and bore new ones, using the new transmission as a guide, and use 'smaller-than-hole' round head screws to mount it to the spoolbox. (This step is not always necessary.)



### Ampico Function Switches



"Ampico Function Switches" are now available at Player-Care. These are the four switches that are found in every Ampico A reproducing player piano. These switches are cast in solid brass and machined by hand. They are the finest switches of their kind in the world. (Handles not shown or included.) Cost is \$275.00 for the set. (Guide pin not included.) They are not available separately. Priority Shipping is \$13.45. Includes Delivery Confirmation and Insurance (U.S. only). To place an order, [Click Here](#).

### Special 3/8 in 'T' (w/9/64 in leg) Connector



These connectors are used in various locations in player pianos and orchestrions when in-line vacuum testing is necessary or desired. They are also found in the Ampico B player system. These are custom-made for Player-Care, and are not available in any other marketplace. The cost per piece is \$17.50. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### Ampico A Valve Block Seat



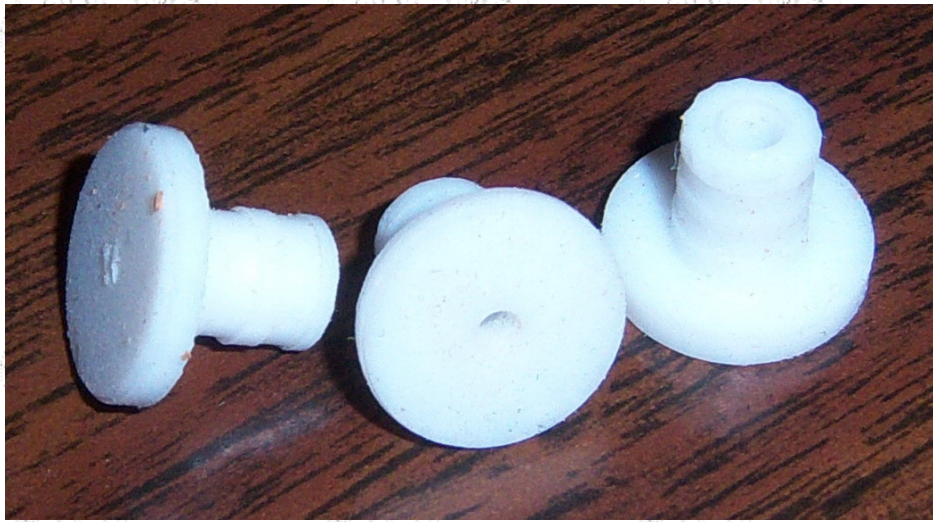
#1855 - Ampico 'A' Intake Valve Seat for the 13/16" outside diameter valve with the 17/32" stem. The outside diameter of the seat is 7/8" and it fits into an 11/16" hole. The flange is 1/16" thick. These parts replace the Bakelite seat in the later model A Ampico block valves; The ones without a bleed cup. (see pictures below) Made of aluminum. \$2.35 ea. or \$190.00/100. (Limited Supply) Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).



Click on the image to see the full size picture.

### Ampico 'A' Expression Valve Bushing





These are Teflon bushings used to replace the metal guide bushings in the Ampico A Expression Mechanism. The original guides often leak due to wear. Cost is \$28.00 per bushing. (Limited Supply) Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### Ampico Block Valve Plates





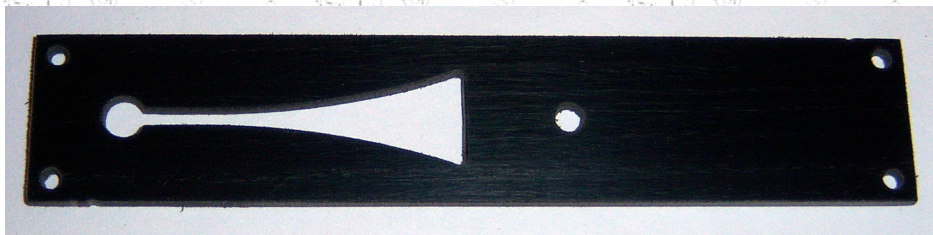
These are the 1" replacements for the Ampico Block Valve Plates that sometimes get damaged when the block are restored. These parts were made by Bob Streicher. The cost is \$3.50 each. There are only 100 of them available as of Sept 7, 2015. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### **Ampico 'B' Expression Clamp Springs**



These are spring clamps for the Ampico B Expression device. These parts were made by Bob Streicher. The cost is \$2.50 each. There are only 60 of them available as of Sept 7, 2015. Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

### **Ampico 'A' Tempo Slide Plate**



These are the replacements for the often warped or cracked tempo slide plate in the Ampico 'A' Air Motor Governor. The plate measures 3.75" x 0.75" and is 1/16" thick. The part is made out of Acetal, which known for it's dimensional stability across a wide range of environmental factors, i.e., heat and humidity. Unlike brass, it will never tarnish. The recommended adhesive for gluing the plate in place is PVC-E glue. The cost is \$20.00 each. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#).

### **#1856 Ampico 'A' Stack Flange**



This is the wooden arm for the Ampico 'A' stack with the 'flange action'. Does not include the capstan or the bushing cloth. The cost is \$3.50 each. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#).

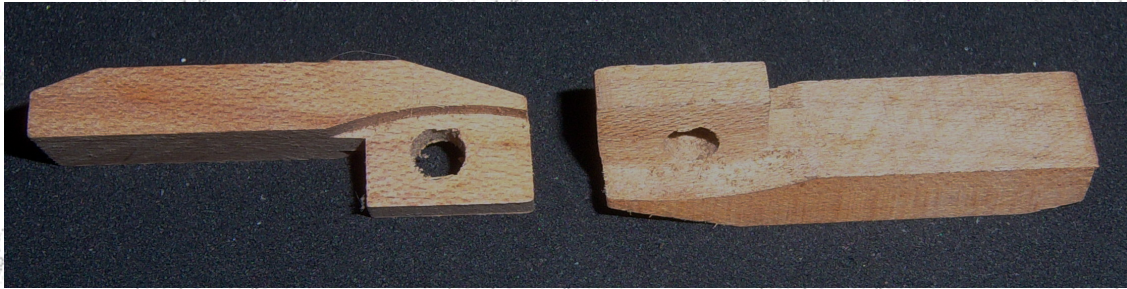
### **#1859 Ampico 'A' Primary Valve Button**





This is the primary valve button for the Ampico and Amphion action which occasionally breaks during the restoring of the valve facings. It is 1/2" in diameter and 5/16" tall, with a 9/64" center hole. (NOTE: O.D. and height may vary slightly.) The cost is \$1.25 each. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#).

### **#1860 Ampico/Amphion Pneumatic Finger**



This is the pneumatic finger for the Ampico and Amphion action which occasionally breaks during the restoring of the striker pneumatics. These parts do not have the felt bushing. They measure 3/8" x 1-3/8" with a 5/32" hole. The cost is \$1.65 each. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#).

### **Ampico Drawer Hoses**



These are the three 14-1/2" x 3/8" ID rubber hoses that are used for vacuum supply in the Ampico A drawer in a grand reproducing player piano. Inside each



hose is a 3/8"OD spring with a minimum of 60 coils. There is approximately 1-1/2" of space between the ends of the hose and the spring. The spring is guaranteed to prevent the hose from collapsing when the drawer is closed. The cost is \$42.00/set of three. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#).

. To achieve 20" of spill, it is highly recommended that the curtain be shortened by 1/8". Making this change will also increase the vacuum level to about 47" on Brilliant. ([Return to previous location](#))

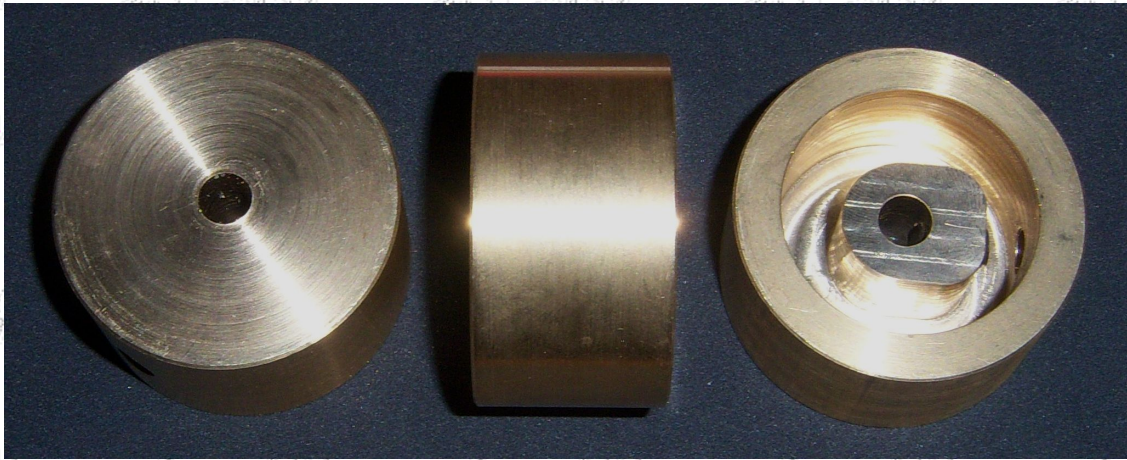
### **Ampico 'B' Reroll Brake Drum**



These are replacements for the [pot metal reroll brake drum](#) in the Ampico 'B' Reproducing Grand Player system. The part is identical in size to the original part, but the set screw requires an Allen wrench instead of a straight-slot screwdriver. The price is \$48.00. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#). Purchase the Reroll and Forward Roll together and save 10%. Just \$99.00 for the pair!!

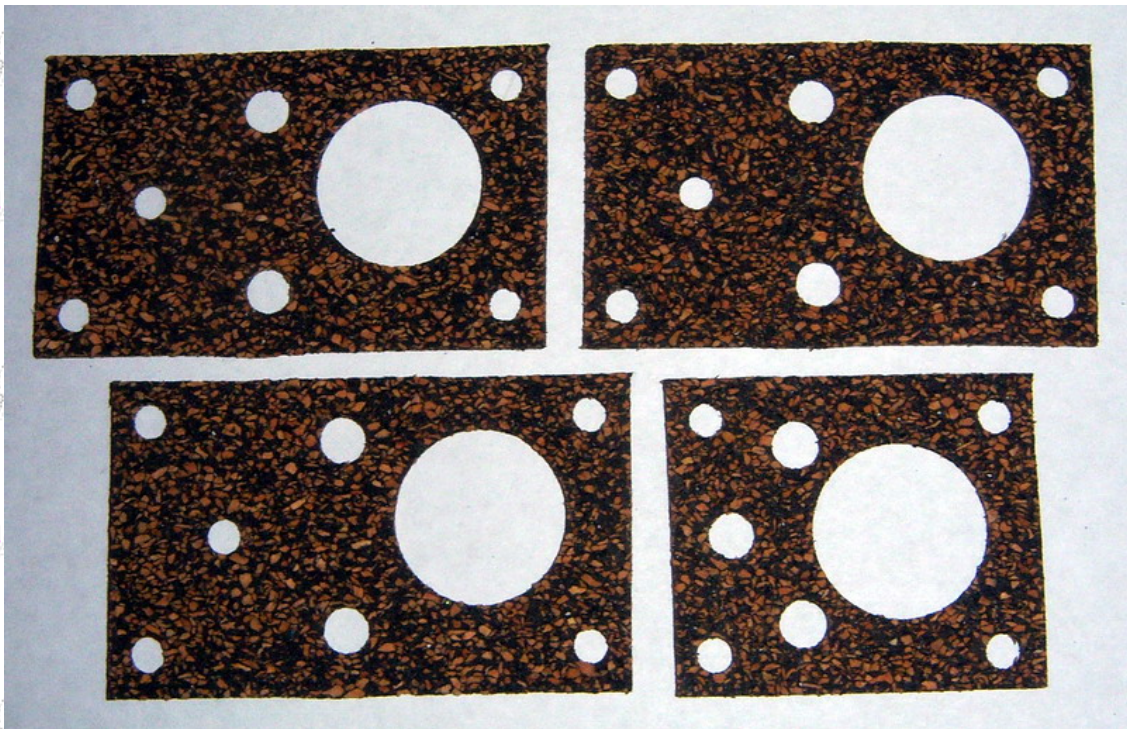


### Ampico 'B' Forward Roll Brake Drum



These are replacements for the [pot metal forward roll brake drum with the brass band](#), found in the Ampico 'B' Reproducing Grand Player system. The part is identical in size to the original part, but the set screw requires an Allen wrench instead of a straight-slot screwdriver. The price is \$65.00. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery Confirmation. To place an order, [Click Here](#). Purchase the Reroll and Forward Roll together and save 10%. Just \$99.00 for the pair!!

### #589 Ampico 'A' Intensity Valves Gasket Set



This set of four gaskets are for the four intensity valves on the Ampico 'A' Expression Mechanism (see Page 8 of the [1923 Ampico 'A' Inspector's Reference Book](#)). The original leather gaskets are normally glued to the valve block and must be removed when the block is restored. The price is \$17.50/set. Priority Shipping: \$6.95 maximum (within the US). Includes Delivery

Confirmation. To place an order, [Click Here](#).

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## Player Piano Vacuum Pump Kits

Full Automation Kits, Auto Rewind, Auto Shut-Off

[What if the pump box doesn't fit inside the piano?](#)

### Electric Vacuum Pump Kit \$375.00

**(Kits are now being made on an 'as needed basis' - [More Info-Click Here](#))**

Guaranteed and Supported by Player-Care  
How quiet is the pump? View the video [-click here.](#)

Tired of Pumping your player piano. This vacuum pump produces a minimum of 50" of water vacuum. Enough to compensate for a lot of leakage. The 'Kit' also contains a Dual Electronic Voltage Controller for adjusting the volume of the music and how fast the music roll is rewound. The inter-connecting tubing, wiring and all necessary connectors are included. Easy to install. One year guarantee on the electronic parts, and a five year guarantee on the vacuum pump. Space required for the pump is 8" square by 10" high, normally installed in the bottom of the piano on the right hand side of the Exhauster Assembly. UPS Ground Shipping/Insurance: \$25.00 maximum amount within the 48 contiguous states.

[Installation Instructions/Diagram -click here.](#)

To place an order, [Click Here.](#)

[Why our electric vacuum pump kit is Safe and Quiet - Click Here](#)

[Need a Used Vacuum Motor? \(click here to see picture\)](#) 28" vacuum minimum - \$40.00/2-yr warranty (under normal usage).



[Click for Larger Image](#)

## **Deluxe Full Automatic System Kit...\$625.00**

**(TEMPORARILY OUT OF STOCK 11/16/2015 -[Waiting List-Click Here](#))**

Guaranteed and Supported by Player-Care

Contains everything in the 'Regular' kit plus an Auto Re-Roll Device and an Auto Shut-Off Device. Everything you need to Electrify and Automate your Player Piano. Complete with installation instructions, tubing, connectors and wiring. Playing a roll becomes a 'push-button' operation. One year guarantee on all electronics, five year guarantee on the vacuum pump. Space required for the pump is 8" square by 10" high, normally installed in the bottom of the piano on the right hand side of the Exhauster Assembly. (UPS Ground Shipping/Insurance: \$30.00 maximum amount within the 48 contiguous states.)

[Installation Instructions/Diagram/Pictures -click here](#). To place an order, [Click Here](#).

### **Automatic Rewind Device**

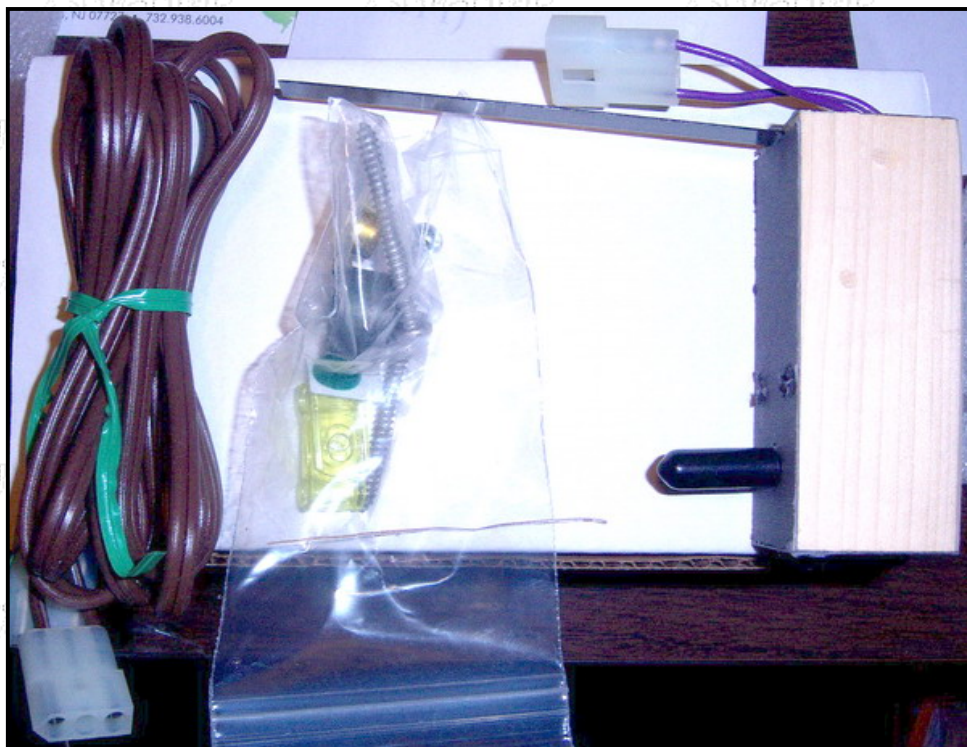


Designed primarily for players that have already been electrified, this device will shift the transmission from Play to Rewind at the end of the music roll. It is triggered into operation by perforations that are located a few inches past the last playing notes, which are common on almost all music rolls. To view the Installation Instructions, [click here](#). The cost is \$172.50, which includes 3 ft of vacuum supply tubing, connecting elbows, trackerbar tubing, and associated mounting hardware. Shipping charge is \$19.95 within the US and \$48.00 to most overseas countries. Insurance is additional. To place an order, [Click Here](#).

To purchase replacement block valves for this device [-click here](#).



## Automatic 'Off' / Pushbutton 'On' Device



This is the Automatic Shut-Off and Pushbutton 'On' Device that's part of the [Full Automation Kit](#). It comes with about 8 ft of line cord, required hardware, and instructions for mounting the unit in the spoolbox. This device can be easily wired into an existing electric vacuum pump system, and replaces the regular on-off switch. Cost is \$110.00 ea. Minimum Shipping charge is \$7.95 within the US. \$26.50 to most overseas countries (same conditions apply). To place an order, [Click Here](#).

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## ***Player Piano Bellows Cloth***

### ***Pneumatic Cloth - Rubberized Cloth***

### **Bellows Cloth**

+++ Colors of the cloth may change but the quality will not +++

All cloth is sold by the "RUNNING YARD" (or Foot) -Width of each type varies

Minimum "Length" we'll cut for ALL Cloth is six inch increments!!

For those who use Millimeters, use the handy calculator ([Click Here](#))

["How much cloth do I need?" - Click Here](#)

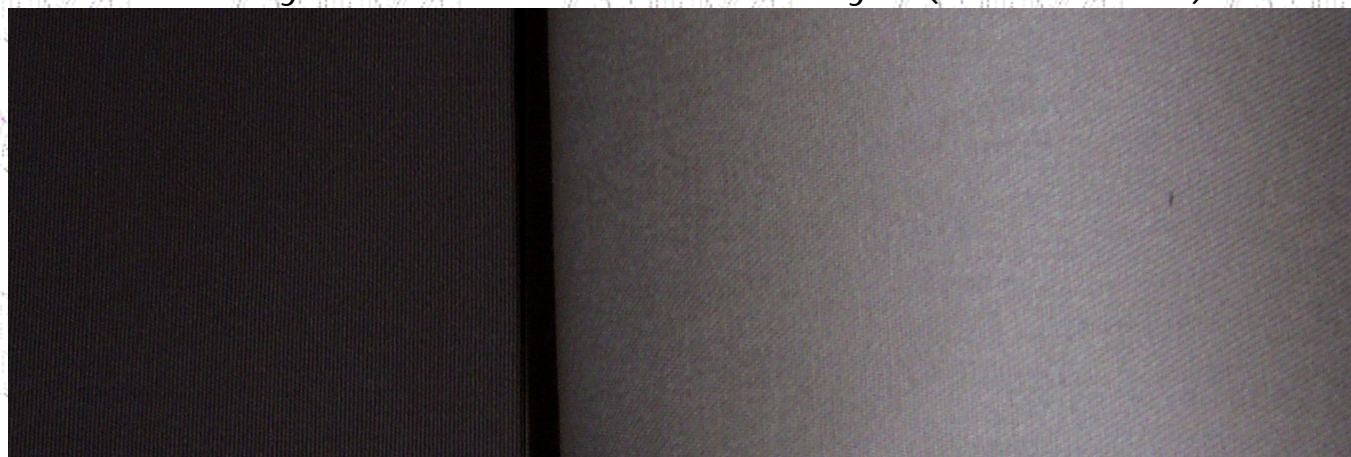
[My cloth looks good. Should I change it? - Click Here.](#)

[Left-over pieces of cloth at a discount -Click Here](#)

[What is the Shipping Cost?](#)

---

'Heavy' Bellows Cloth....\$113.75/yd. (or \$43.75/ft.)



The thickness of this heavy cloth is 0.044". An excellent cloth for feeders, exhausters, and reservoirs. Cotton inside and acrylic outside with a 0.034" inner layer of the highest quality natural rubber. Color is tan on the inside (cotton side) and light brown on the outside (acrylic side). The maximum width is 60 in., available in any length. Also available in 6" x 60" strips for \$24.00. Will also sell strips of less than 6" wide for \$9.75/sq ft. This cloth is also good for making a 'Mandolin Rail' or 'Honky-Tonk' device. We also sell the '[Mandolin Rail Tabs](#)' [-click here](#). To place an order, [Click Here](#). (If ordering strips, specify the required width.) Minimum shipping for two (2) or more feet of heavy cloth is \$13.45.

NOTE: (Limited Supply) Looking for "very heavy cloth" (0.050 in.)? Call 732-840-8787.

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Peripheral Devices Cloth ....\$106.25/yd. (or \$41.25/ft.)



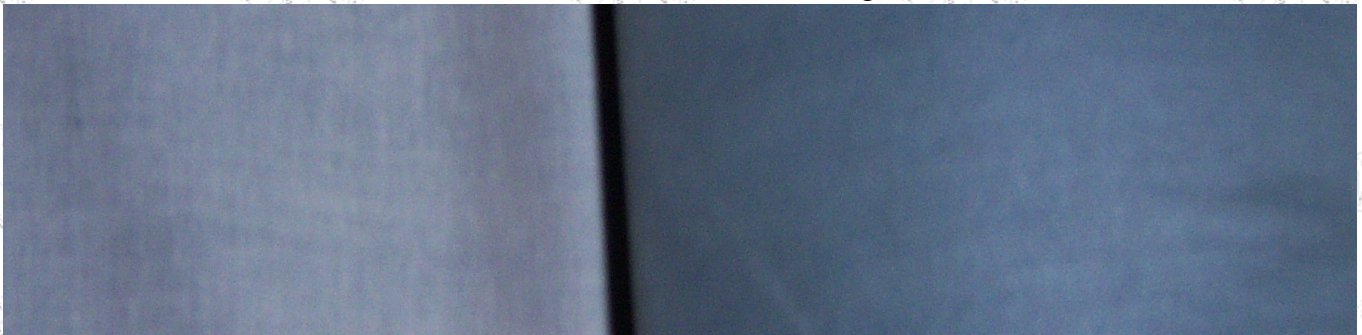
This general purpose cloth is superb for Air Motors, Tracking Devices, Air Motor Governors, Auto-Sustain, and any other application where a medium weight cloth is required. Black/Maroon with natural rubber in the middle. Thickness is 0.014". Width is 51".

Due to an increasing demand for correctly biased strips of motor cloth for Spring-Loaded devices like Air Motor Governors, Auto-Sustains, and Equalizers, I am now offering 6" x 25" strips of this cloth for \$13.69 ea.

To place an order, [Click Here](#). (If ordering strips, specify; Strips of Type "A" cloth). NOTE: The outside (maroon side) of the cloth is a bit smoother and shinier than the inside (black side). You can feel the difference when you touch the cloth. In a bright light, you can also see the difference.

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Striker Pneumatic Cloth.... \$89.25/yd. (or \$33.95/ft.)

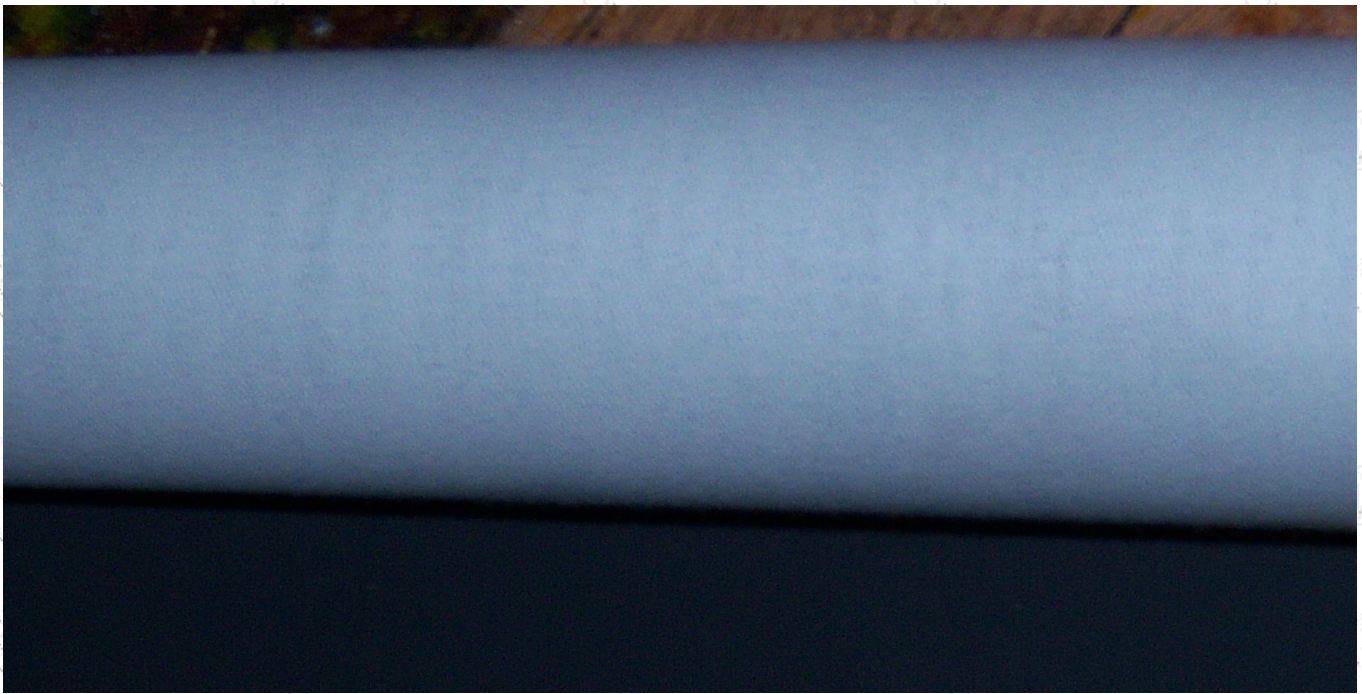


Simply the finest 'rubber-coated' Striker Pneumatic Cloth in the World. Thickness is 0.009 in. Width is 52 in. Have a small job that requires very little cloth? 6" x 25" strips are available for \$9.95. To place an order, [Click Here](#).

---

Reed Organ Bellows Cloth.... \$78.00/yd.





This is excellent quality reed organ bellows cloth. White cotton cloth inside with a thick natural rubber coating on the outside. Thickness is 0.025 in. Width is 58 in. Sold by the running yard (36 in.) or in strips measuring 2-1/3 ft. x 7 ft. for \$5.80/sq. ft. (\$94.73). Saves you at least 33% over the cost per running yard if you are only rebuilding one reed organ. Minimum shipping cost is \$13.45 (includes Delivery Confirmation). NOTE: This cloth is not recommended for use in player pianos. To place an order, [Click Here](#).

**Need a specific size strip of reed organ cloth? Don't hesitate to [write to me](#)! \$6.00/sq. ft. 'A reasonable price for custom-cut pieces'!!**

Other size pieces of reed organ cloth that are available at a discount -[click here](#)

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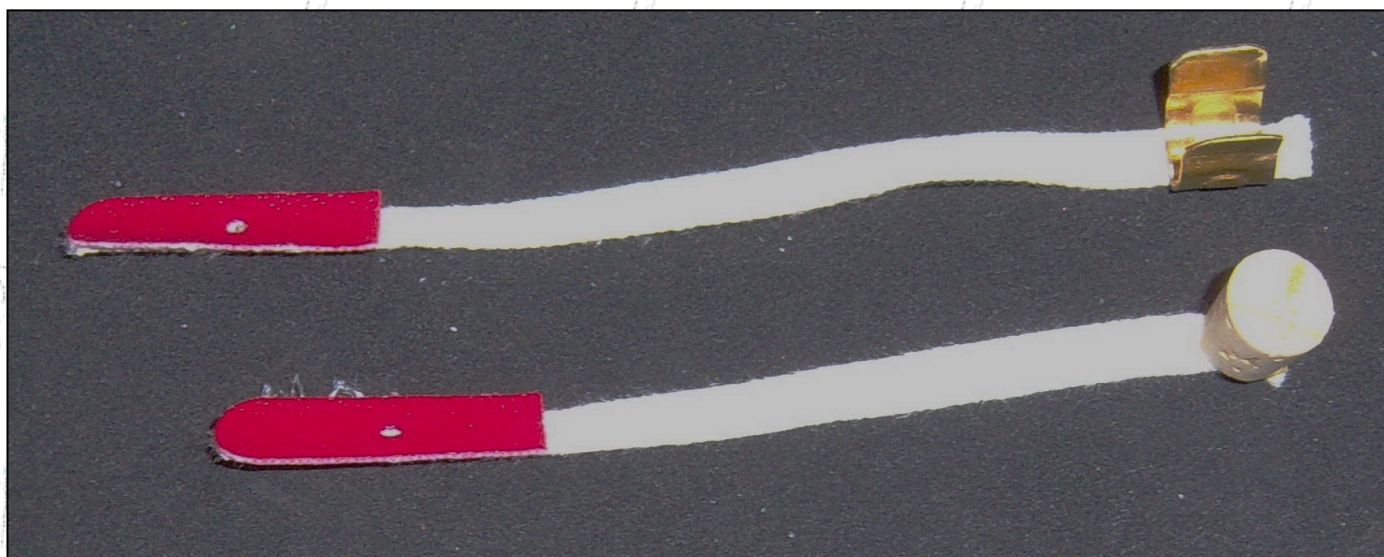


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## *Bridle Straps for Pianos*

## *Bridle Tapes for Pianos*



These are the two most common types of replacement bridle straps (or tapes). The #1500 are known as the "spring clip" type, and the #6516 are known as the "cork insert" type. Piano supply houses only sell these parts in sets of 90. We sell them for individually, by the dozen, or in full sets. See the table below for prices. For information about installing these parts, watch the [video](#) below. To place an order, [Click Here](#). Priority Shipping \$6.95 minimum (US ONLY). Includes Delivery Confirmation.

#1500	#6516
\$0.87 each	\$0.75 each
\$8.65/doz.	\$7.35/doz.
\$26.00/set	\$22.00/set

I found the video below on YouTube. It was done by Howard Piano Industries. The only thing I don't totally agree with is the spacing he leaves between the jack and the butt. I set it at between 1/8" and 1/4". Also, he doesn't mention that if there's too much space between the jack and the butt, the jack can get under the butt. If that happens, the hammer will block against the strings when the action is installed and that could cause something to break. So, it's important to adjust the bridle wire (or the spring clip) such that there's no more than 1/4" of free space between the jack and the butt. I find



everything else about the video quite satisfactory. BTW, I don't recommend using the original type bridle straps. It takes lots of practice and experience to install them such that you don't get any glue on the buckskin -which could cause a real problem.

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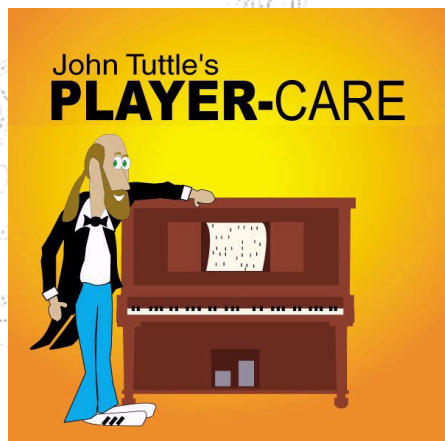


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## "NEW PARTS"

Cremona  
Seeburg  
Lamps

[Reference Materials](#)



**Just arrived. New lamps for your coin operated piano. Just like the ones used by Cremona, Seeburg, and other makers of coin pianos. Available in polished brass or satin brass. Cost: \$695.00 plus Shipping. To place an order, [Click Here](#).**



***Please Allow 2-3 Weeks for Special Orders  
All Orders MUST BE Pre- Paid in Full***

Call 1-732-840-8787 (8AM-8PM EST Mon-Sat) to place the order.



Or send an E-Mail to: [John A Tuttle](mailto:John A Tuttle)

**Most orders will be sent directly. If necessary, I will  
contact you via E-Mail (or by Phone) and ask for a confirmation.  
Incomplete requests will be Ignored!!!**

**[Secure Order Form for All Orders - Click Here!](#)**

**(Click above link to access the Secure Order Form)**

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for questions or comments contact  
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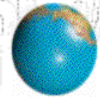


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## "Tips and Tricks"

### Making Pouches For a Universal with Plastic Pouch Rings

Universal Reference Materials

Restoring Universal Pouch Rings

Valve Facings and Pushers



## **Making Replacement Pouch Rings for the Modern Universal Player Piano**

Dow Corning 3140 is now available at Player-Care

While there are numerous steps involved in the restoration of the modern Universal stack, the one that presents the greatest challenge and is, no doubt, the most difficult and time-consuming is the replacing of the pouch rings. Until around 2008, this job was fairly easy because replacement pouch rings (with the pouch already glued to the ring) were still available through Story & Clark. Now that the plastic rings are no longer available, one of the few options left involves removing the old rings and using them again after they have been recovered with pneumatic leather. After trying two of the techniques that have been developed, I decided to develop my own technique, which can be replicated without the use of any special tools.

Perhaps the scariest part of the whole process is removing the old rings. This is because there is absolutely no room for error. If even one ring gets damaged or broken, you will end up with one less note that works, or you'll have to employ some other technique. (I might cover that problem at the end of this treatise.) However, having successfully removed the old rings from three units to date (6/16/2014) without any problems, I believe my technique is easy enough to do that I feel confident others can do it too. As you'll see in the video below, the process requires nothing more than a screwdriver. However, the screwdriver *has* been modified slightly. In the simplest of terms, the sharp edges have been *rounded* with a metal file. This was done to greatly reduce the possibility of gouging the underside of the plastic ring. In only two cases (out of the 250+ rings that I've removed) was the upper-side of the ring slightly dimpled by the shaft of the driver. To date, none of the undersides of the rings have been marred. Below is a short video that shows how I remove the rings. .

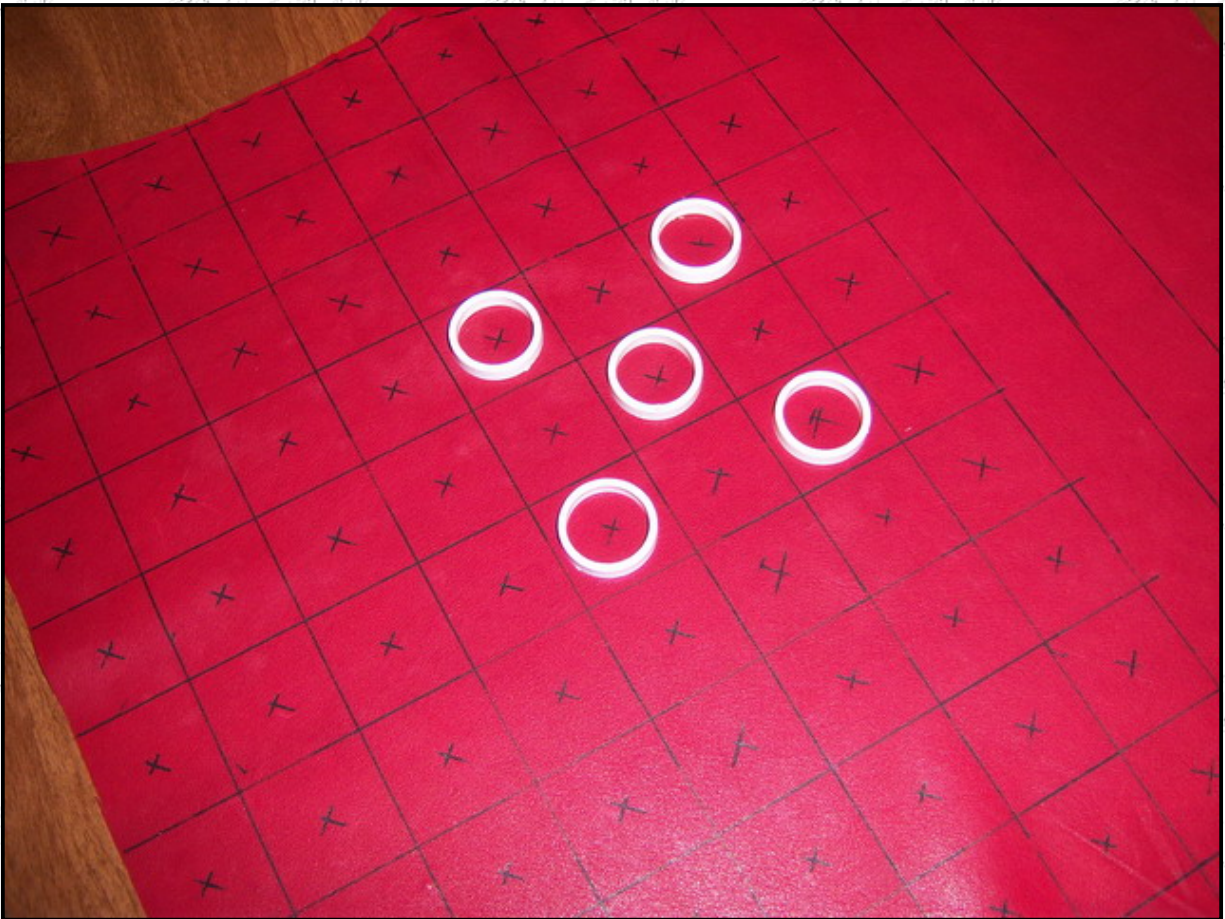
The next step in the process has to do with cleaning off the old pouch. Most simply put, I believe the safest and easiest way to do the job involves sandpaper. Personally, I use a small belt sander with a rather used 120 grit belt. I attack this phase of the job very delicately. My goal is to remove the old pouch without removing any of the plastic. This requires a soft touch, steady hands, and patience, but you do have a slight amount of room for error here. The final goal is to remove all of glue on the ring while keep the bottom of the ring flat. The video below shows how I do the job, but I would recommend that beginners use 120 grit sandpaper and an extremely flat surface, like a piece of plate glass or flat piece of metal.



This next phase is the final step in the cleaning process. While there are certainly a number of other ways to handle this phase of the operation, I find that using a box cutter is the easiest way to get the job done without damaging the ring.

Now we're ready to start making the new rings. The first step in this process is marking the pneumatic leather. The leather I use comes from [Columbia Organ Leathers](#). It is their [CML -Columbia Maroon Leather](#), which is also known as "Aeolian or Morton" Style leather. I use 'Extra Thin', which is 0.008"-0.010" thick. (This leather is NOT air-tight, but we'll solve that problem later in the treatise.) You will only need one square foot of the leather. (It says at their website that they sell 6" x 12" strips of the CPL leather. I've never asked if they will also sell strips of the CML, but it doesn't hurt to ask. I buy full skins.)

With regards to marking the leather, I make them 1.2" square. The rings are 1" in diameter. So, you *could* make them smaller. However, I would advise against doing that because, as you'll see in the video below, you run the risk of having to deal with contorted (or warped) leather. At 1.2" square, you can get 100 pieces out of one square foot of leather. Lastly, I recommend cutting the leather in strips as opposed to cutting it into individual squares. You'll see why in the video. Here's what the leather looks like when it's been fully marked. \*Added note: Mark the FLESH side of the leather, not the HAIR side. Also, the ring gets glued to the flesh side.



Gluing the Ring to the Pouch Leather  
This video is 22 minutes long.

Now we're getting to the final stages in the manufacturing process. I use a 1" Arch Punch to trim away all of the excess leather, but a good pair of sharp scissors will do the job just as well. (It will just take a little longer.) Once the excess leather is out of the way, the last step is bevelling the edge of the ring ever so slightly. This can be done on the belt sander or by hand. See the two following videos.

The last step in the process involves sealing the pouches. As mentioned earlier, the leather is not air-tight, and that's a problem because the Universal stack was designed for air-tight pouches. As you'll see, sealing the pouches



is a painless procedure. However, it requires a very specific type of RTV that's made by Dow Corning. It is their product number 3140 (MIL-A-46146) RTV Coating. (Now available at Player-Care for \$40.00 + \$8.95 S/H. Use this [Secure Order Form](#) and type "3140" in the Comments Box.) The method I use was first introduced to me by Al Pebworth, who has a webpage that demonstrates how use the sealer to seal a pouch. [Click Here](#) to go to Al's webpage.

### Sealing The Pouch with Dow Corning 3140

After the pouches are sealed, they get dusted with baby powder.

In the next segment, we'll put the rings back in the stack and seal them. I'll also show you a few other procedures that need to be done when restoring the stack. Then we'll assemble each section of the stack and test it. [Click Here to go to the next segment.](#)

This is just a Preview of the videos that will be in other segments of the Restoration Process

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## Standard Valve Parts

Parts for Standard Player System Valves



#1111 - Force-Fit Brass Collars (for Standard Valves): 0.215" OD, 0.088" ID, 0.050" thick: 10-99 @ \$0.25 ea. \$18.85/100

Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).





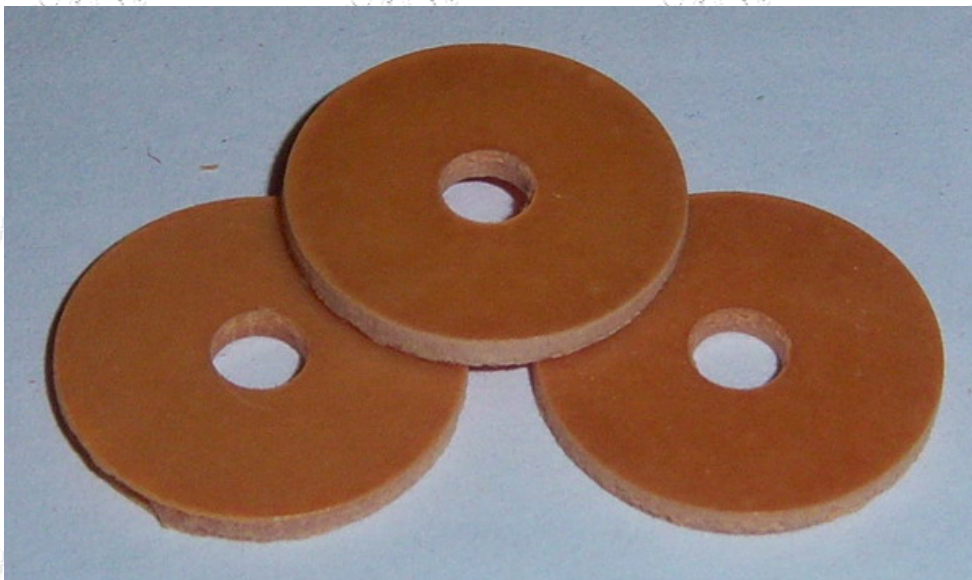
#1115 - Backing Plate - Stainless Steel - (for Standard Valves): 11/16" OD, 0.094" ID, 0.050" thick: 10-99 @ \$0.58 ea. \$46.40/100  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

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#1119 - Top Plate - Stainless Steel - (for Standard Valves): 17/32" OD, 0.094" ID, 0.010" thick: 10-99 @ \$0.50 ea. \$40.00/100  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

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#783 - 11/16" OD, 5/32" ID, 1/16" thick, Hard Disks: 10-99 @ \$0.35 ea., \$26.00/100  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

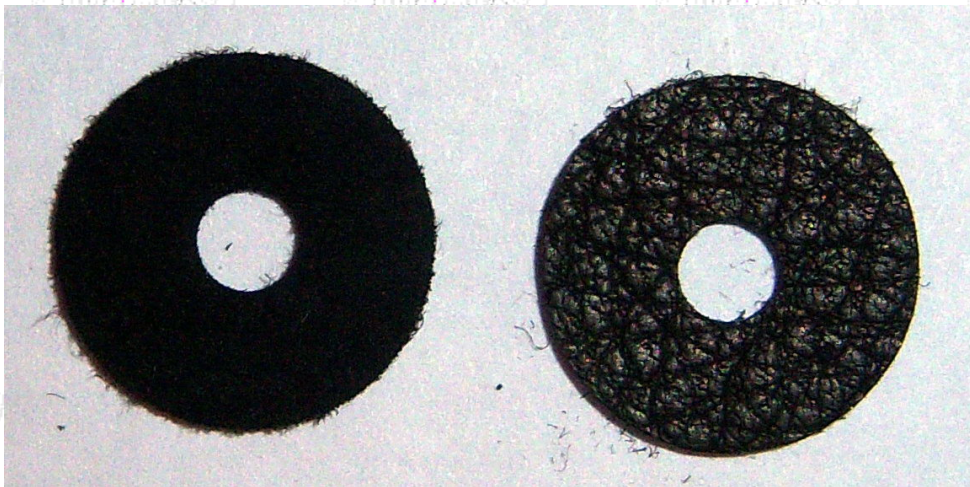
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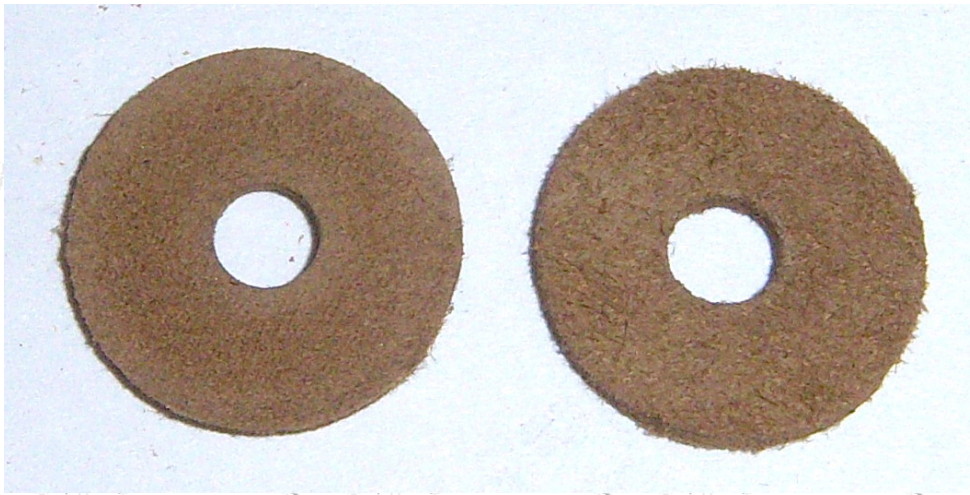
#1529 - 11/16" OD, 3/32" ID, 0.025"-0.042" thick, Leather Valve Facing  
(Exhaust): 10-99 @ \$0.52 ea., \$41.60/100  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an  
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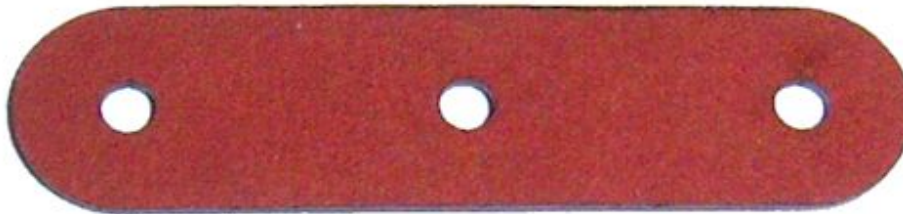
#696 - 9/16" OD, 5/32" ID, 0.030"-0.035" thick, leather (kid) - STANDARD  
Primary Valve Facing (Also used in Tracking Devices with primary-type valves):  
1-12 @ \$0.72 ea. or \$60.00/90  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an  
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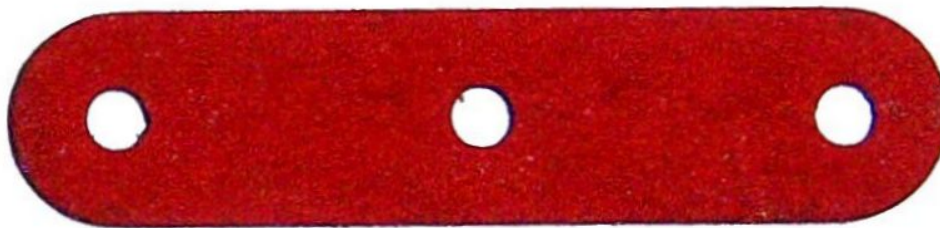
#697 - 9/16" OD, 5/32" ID, 0.030"-0.035" thick, leather (calf) - STANDARD Primary Valve Facing (Also used in Tracking Devices with primary-type valves): 1-12 @ \$0.72 ea. or \$60.00/90  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

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#1118 - 1-1/2" x 3/8", 0.046" thick, screw holes 1-1/8" on center, 0.098" center hole, red fibre material - STANDARD Valve Guide (no bushing): 1-12 @ \$0.75 ea. or \$60.75/90  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).

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#1109 - 1-5/8" x 3/8", 0.046" thick, screw holes 1-1/4" on center, 0.098" center hole, red fibre material - STANDARD Valve Guide (no bushing): 1-12 @ \$0.75 ea. or \$60.75/90  
Priority Shipping \$6.95 minimum. Includes Delivery Confirmation. To place an order, [Click Here](#).



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John Tuttle's **PLAYER-CARE**

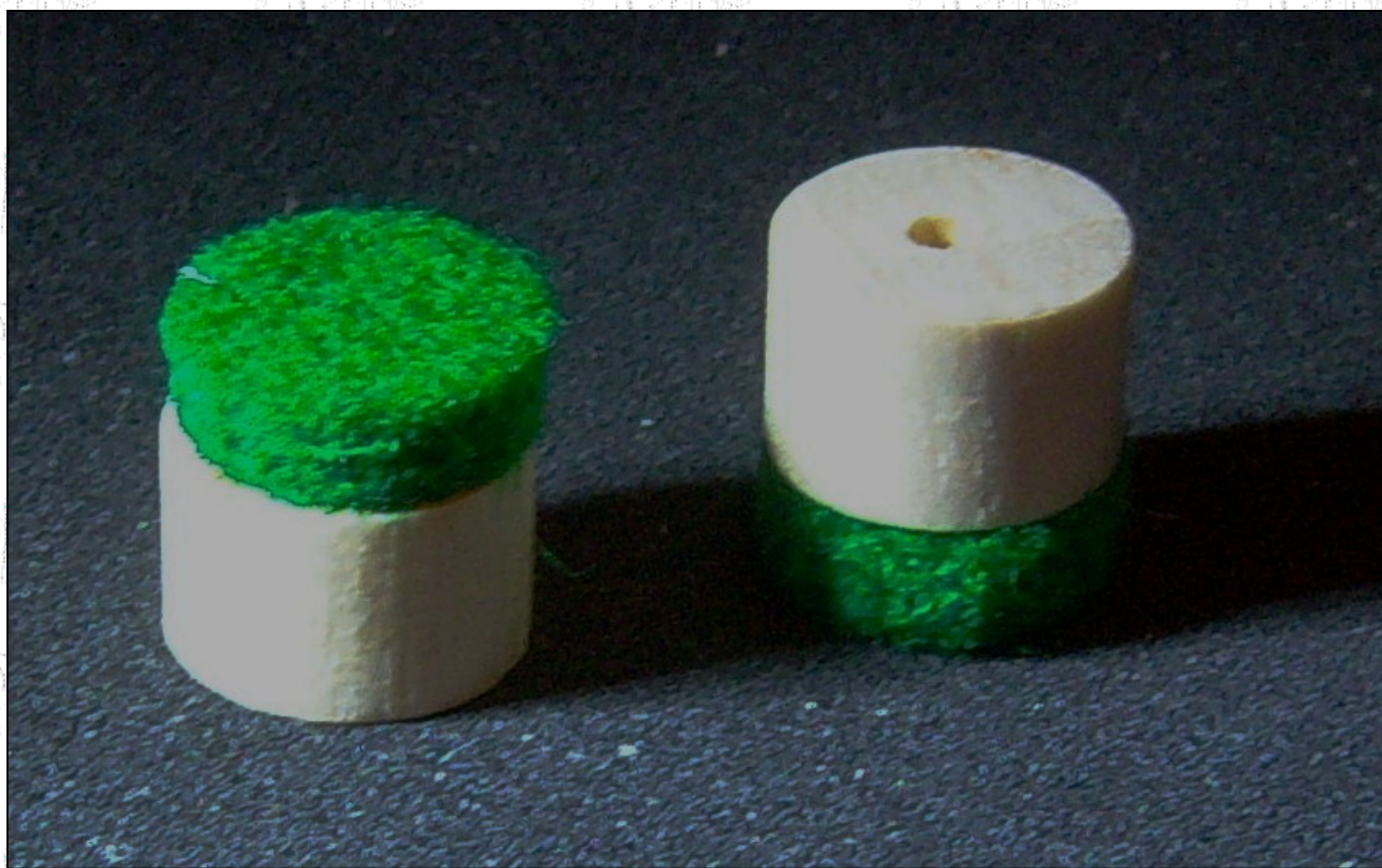
*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



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## *#549 Regulating Buttons, 3/8 in. Wooden Buttons with Felt Pad*



These #549 wooden regulating buttons are 3/8" in diameter and 1/4" in height. The felt pad is 1/8" thick. Overall height is 3/8". The center hole is 1/16" (#51 drill). They cost \$0.50 each, \$4.25 per dozen, or \$27.00 per 100. To place an order, [Click Here](#). Priority Shipping \$6.95 minimum (US ONLY). Includes Delivery Confirmation.

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## Using the Trackerbar Pump The 'Kissing' Technique

As a rule of thumb, the trackerbar should be pumped out every eight playing hours. Each roll is about 3+ minutes long. So 'Pump the Bar' after about every 100 or so plays. Keeping the 'Bar' clean is very important. It prevents weak and/or silent notes that result from paper dust and chad (those nasty little pieces of paper that hang on to a punch card) that get sucked into the holes in the trackerbar. It also helps insure Good Roll Tracking ([See Pictures](#)).

**[To Purchase a Trackerbar Pump for \\$58.50 - Click Here \(Minimum S/H: \\$10.85\)](#)**

**[To Purchase a Replacement Tip for \\$8.50 - Click Here \(Minimum S/H: \\$8.10\)](#)**

**[To Purchase a Replacement Filter for \\$6.95 - Click Here \(Minimum S/H: \\$7.95\)](#)**

Having pumped out thousands of trackerbars, I have developed an extremely effective technique that develops the most suction you and the pump can create. The technique is called the 'Kissing Technique' because of the sound that occurs once you've mastered the technique.

Start by pushing the piston handle all the way 'in'. Press the rubber tip tightly against the trackerbar. With your other hand, pull the piston handle 'out' very smartly, the faster the better. As you reach the top of the 'out' stroke, allow the force of the stroke to pull the rubber tip off of the trackerbar. Move the 'pump' away from the piano, then push the piston handle back 'in'.

You'll know you've got this technique right when you hear a 'kissing' sound as the rubber tip comes away from the trackerbar. (The sound you hear is the vacuum, created by the pump, escaping to the atmosphere.)

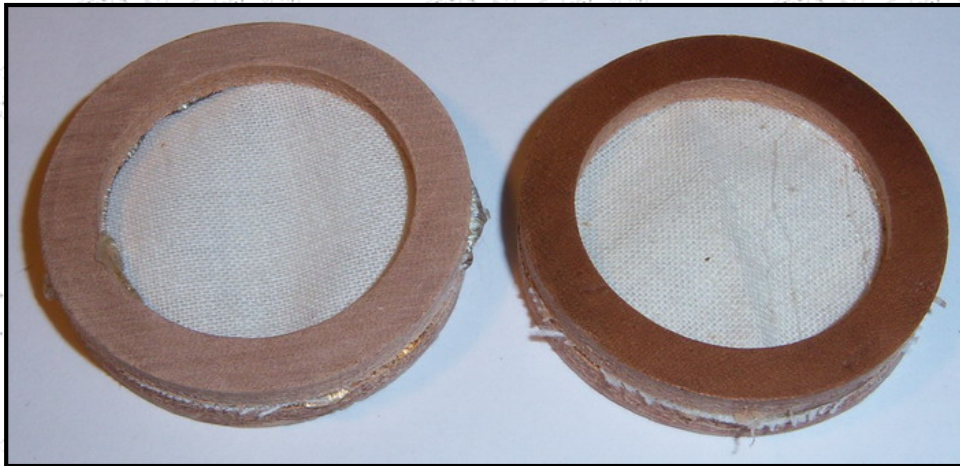
Repeat this process for every hole on the trackerbar. If present, pay particular attention to the outermost holes on the 'bar'. These holes are typically used for 'roll tracking', and since they are next to the edge of the paper, they suck in the most debris. (That's because the edge of the paper is where most of the wear occurs.)

After completing one pass over all the holes, clean the dust screen and repeat the entire process again. Continue repeating the process until the filter is free of any debris. On average, it will take three complete passes before the majority of paper dust is removed from the player system.





Replacement Rubber Tip - \$8.50 ea. + \$8.10 S/H



Replacement Filter - \$6.95 ea. + \$7.95 S/H



**1  
RUBBER TIP:**

Has concave surface fitting snugly on face of tracker-bar.



**2  
DUST CUP:**

Holds the dirt until removed by emptying



**3  
DUST SCREEN:**

Prevents the dirt from entering the mechanism of device.



entering the mechanism  
of device.

4

**VALVE:**

Acts as suction while  
piston is drawn, re-  
leases the air when  
plunger is pressed  
forward.



5

**PISTON ROD**

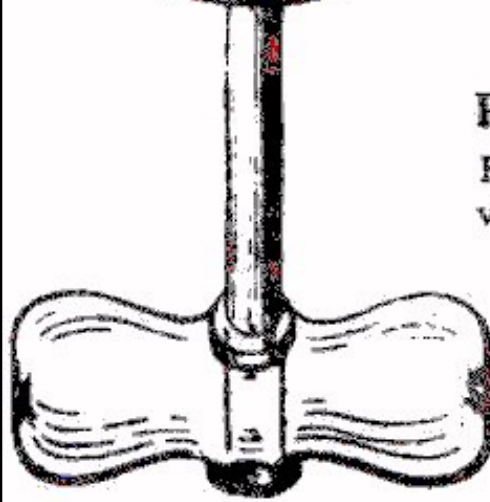
6

**TUBE**



7

**REAR CAP**



8

**PISTON HANDLE:**

For operating the de-  
vice.

Trackerbar Pump - \$58.00 ea. + \$10.85 S/H to most US destinations.

"Keep the Music Rolling"©

**All Orders MUST BE Pre-Paid**  
**Questions: Send an E-Mail to: [John A Tuttle](#)**

*Most orders will be sent directly. If necessary, I will  
contact you via E-Mail (or by Phone) and ask for a confirmation.  
Incomplete requests will be Ignored!!!*

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John Tuttle "Player Piano Repair Service"  
General Information: [John A. Tuttle, WebMaster](#)



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***"KEEP THE MUSIC ROLLING"***

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Now Playing: This MIDI file is called "[Saved by Gabriel](#)". It was created on May 17, 1998 after hearing the song on an old cassette tape. Gabriel Della Fave converted the audio cassette to Real Audio and I wrote the midi file the next day. Like many of my tunes, this one never had a title.... until now.

---

*This page was last revised on February 8, 2010 by John A. Tuttle ([John A Tuttle](#)).*

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Although I prefer that you send [E-Mail](#), if you have a non-order related question, you can reach me at (732)-840-8787.  
If I'm in the Shop or at Home, I will answer the phone.  
Otherwise, please leave a message.

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As per the Fair Credit Billing Act, your bank cannot hold you liable for more than \$50.00 of fraudulent credit card charges. PLAYER-CARE will pay the \$50.00 if the unauthorized use of your card resulted from a purchase made through our site. We are so confident of the security measures we've put in place, we'll also pay you an additional \$25 just for the inconvenience!

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## **Universal Power Cord**

## **Valve Facings and Pushers**

## **P-2 Circuit Board**

[Universal Reference Materials](#)

[Restoring Universal Pouch Rings](#)

[Securing the Valve Facings](#)

[Installing the Rebuilt Stack](#)

Finally, after years of searching, I have found a replacement power cord for the modern Universal and the modern National Piano Co. player piano. While the cord is only thirteen inches (13") in length, it has the correct size holes and the proper spacing to fit the male outlet in the piano. The cost is \$18.95 plus \$6.95 Shipping. To purchase this cord, fill out the [Secure Order Form](#) and type "**Universal Power Cord**" in the *Comments Box*. ([click here](#))

Any length of a similar 3-wire extension cord can be safely connected to this cord and then connected to a 120VAC wall outlet. And although the cord is a little pricey, it's a lot less expensive than rewiring the AC line.

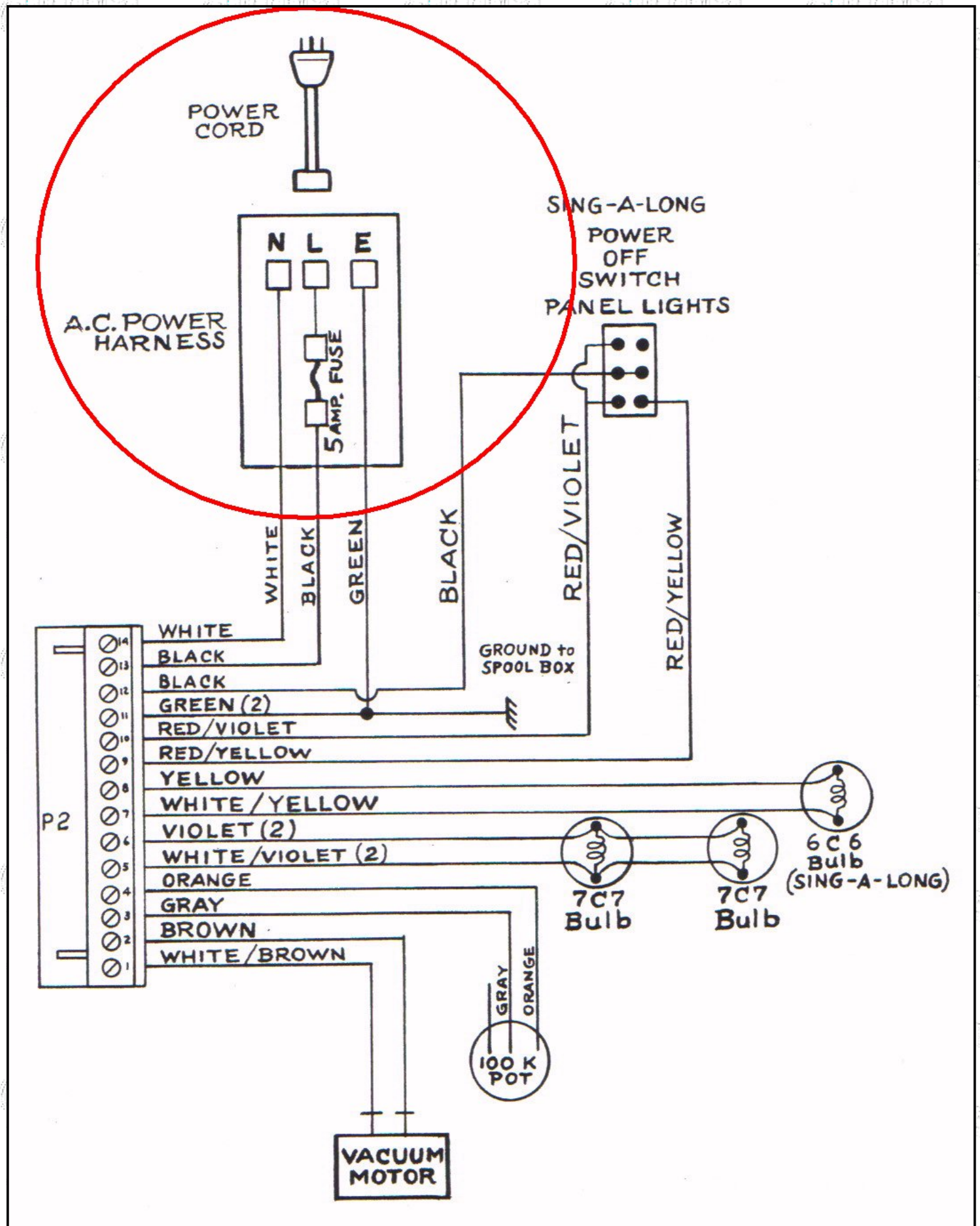


**The Specifications for the cord are as follows:**

<b>Shielding</b>	unshielded
<b>Jacket Color</b>	gray
<b>Length Inches</b>	13"
<b>Temperature Rating</b>	60 degree C
<b>Color Coding</b>	North America
<b>AWG Stranding</b>	18 (41x34)
<b>Nominal OD Inch</b>	0.246
<b>Rating</b>	875 Watts 7A - 125V
<b>Category</b>	3 conductor plastic detachable

**Wiring Diagram**



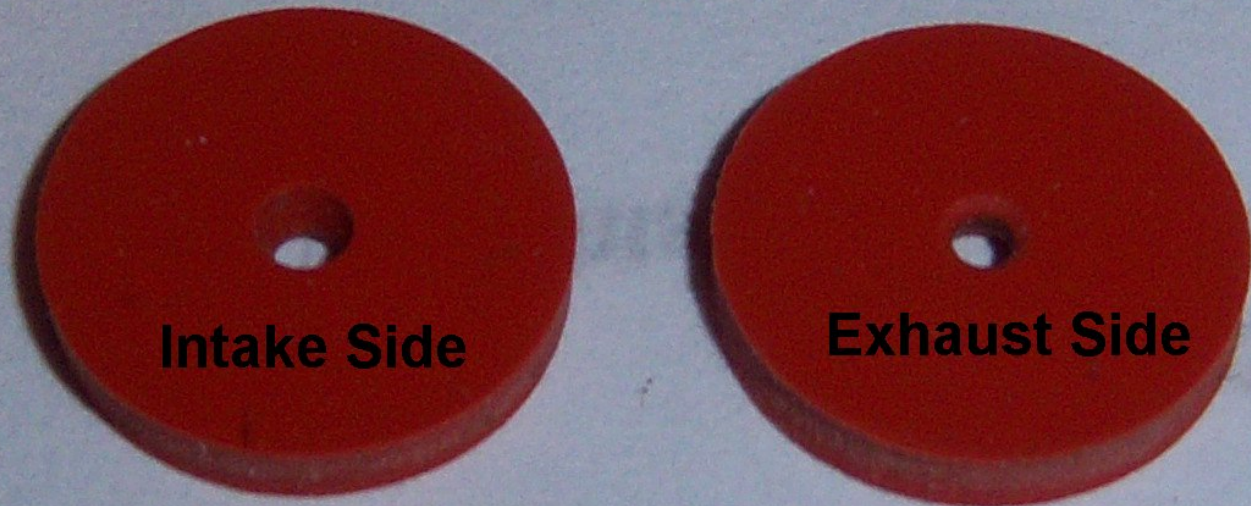




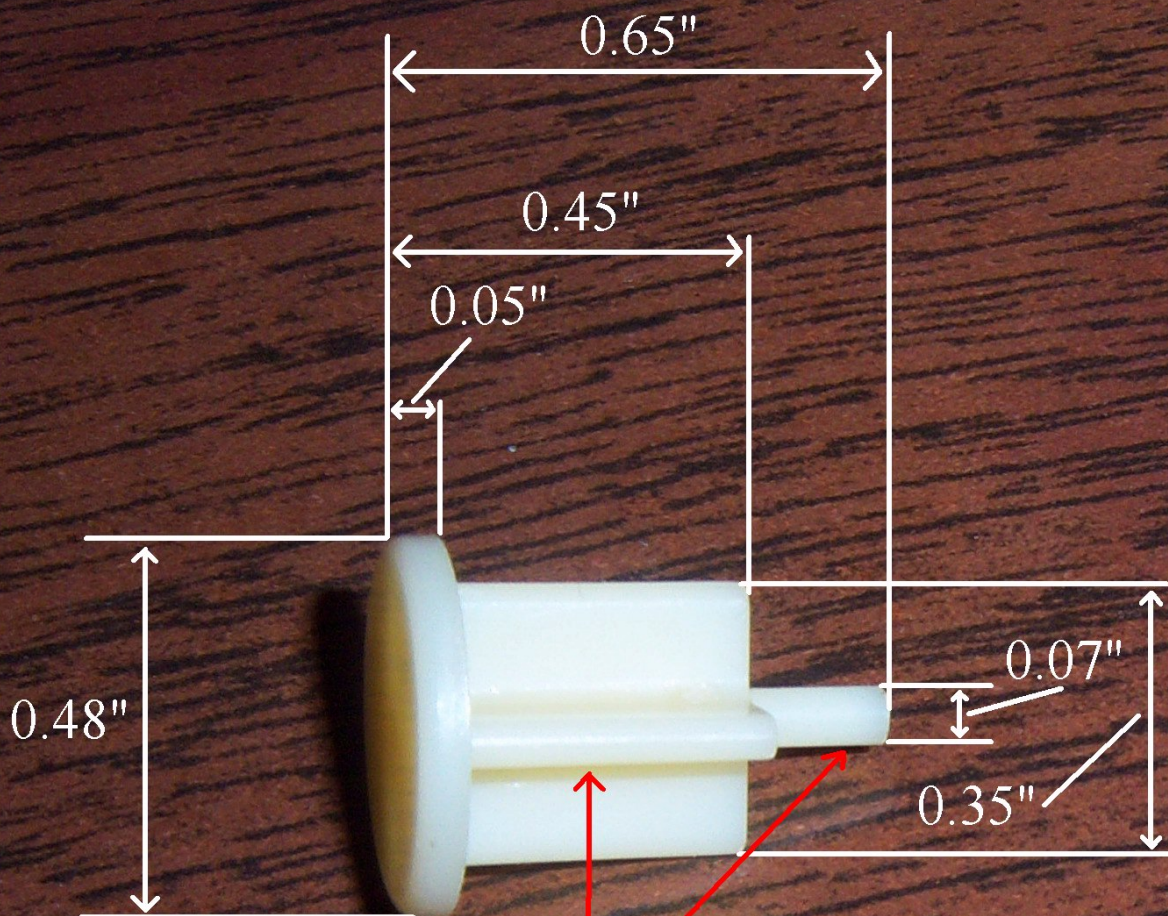
# Valve Facings and Pushers

While they last, I have sets of 90 valve facings and valve pushers for the Universal player action. The cost per set is \$325.00. To place your order -[Click Here](#)- and Type "Facings/Pushers" in the Comments Box.

These valve facings have two sides. An intake side and an exhaust side.



Carefully examine and clean each facing before it is installed.



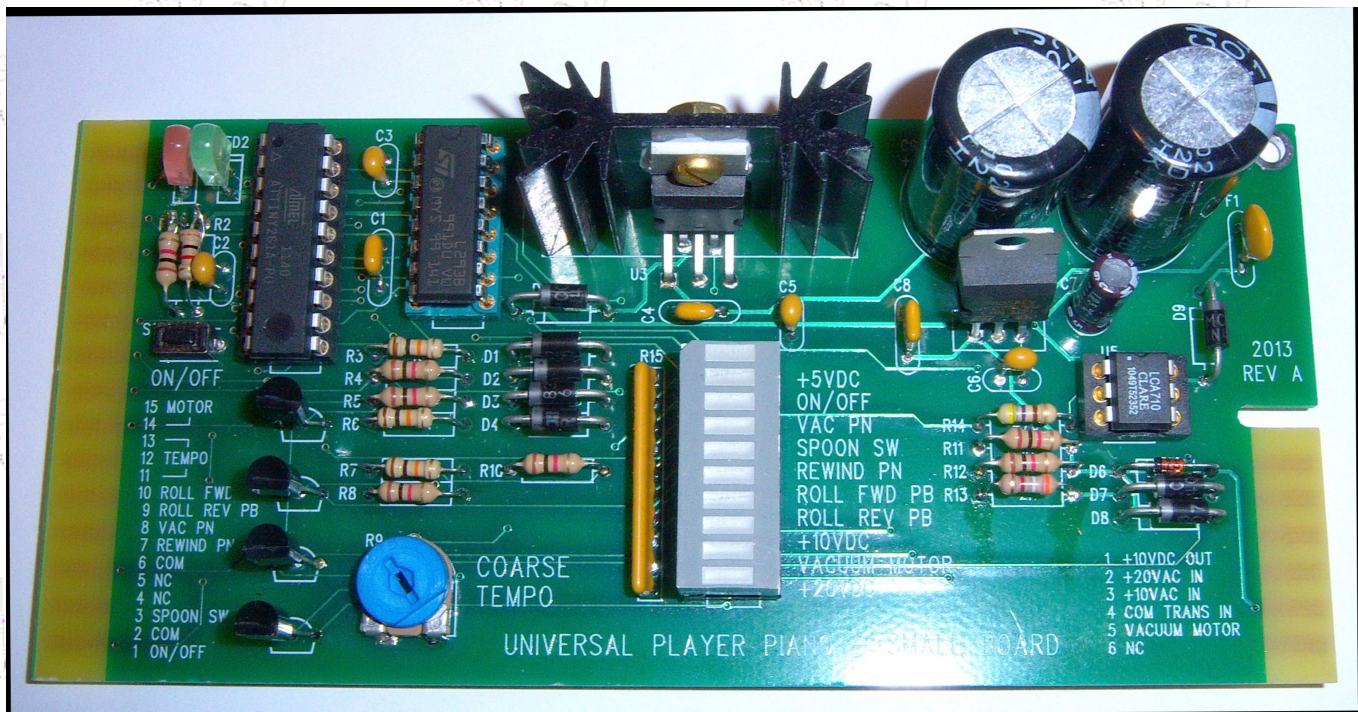
Width of flutes is same as diameter of end pin



Width of flutes is same as diameter of end pin

## Universal P-2 Circuit Board

This is a replacement board for the one found in the Universal P-2. Some of the features it contains are: An LED readout of all of the circuit components and voltages. This is extremely helpful when troubleshooting the system. Also, all of the input and output terminals are labeled. Again, very helpful when troubleshooting. The cost is \$350.00 plus \$11.95 shipping/insurance. To place your order - [Click Here](#) - and Type "P-2 Board" in the Comments Box.



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# *Using a Credit Card To Make a Purchase*



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Once you've placed your order via any of the Order Forms, the order will be processed within 24 hours (Mon-Sat) and you will be sent an E-nvoice® with all of the particulars concerning the order, including the Delivery Confirmation or the USPS International Mail number. If you would like an itemized breakdown of the order before it gets processed, please mention that in the Comments Box on the order form. I will contact you via email. To read about how Shipping is handled, please [click here](#).

January 25, 2013. It has come to our attention that a multi-billion dollar lawsuit against the banks and credit card companies is about to be settled. It has to do with the processing fees charged to the merchant when payment is accepted via credit card. To our knowledge, it only effects Visa and Mastercard at this time. What's important for you, the customer, to know is that the law might change regarding how the merchant deals with those fees. At present, it is against US law to pass those fees along to the customer directly. Most merchants simply increase the cost of their products to cover the fees. However, this is unfair to those who pay by cash or check because they are, in effect, paying a higher price for the same product. If the law changes, merchants (except in ten states) will be allowed to tack on a surcharge which does not exceed the amount they are charged by the credit card companies. At present, I am paying the credit card companies three fees per transaction. The fees are called the "Discount Rate", the "Transaction Fee" and the "Authorization Fee". The Discount Rate varies depending on the type of credit card. The minimum Discount Rate is 3.01% and the maximum is 3.95%. The Transaction Fee is a flat fee of \$0.10 per transaction. The Authorization Fee is also a flat fee of \$0.33 per transaction. So, for every dollar you spend with me, I pay the credit card company a minimum of \$0.47 for the first dollar plus about \$0.04 for each additional dollar. I have not yet decided what I will do about this situation, but chances are best that it won't change the way I conduct business. Like most merchants, the costs are already figured into the price of the products.

We are now able to process International orders.



[Back to Order Form](#)





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*This page was last revised **January 25, 2013** by [John A. Tuttle](#) (John A Tuttle)*

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Comments to: [John A. Tuttle \(Player Piano Rebuilder/Site Designer\)](#)

E-Mail should be addressed to "John A Tuttle"

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Now Playing: [Bluing the Black Keys](#) is presented Courtesy of George Bogatko, owner of [SlotTime Rolls & Records](#). Masterfully arranged, this is just one of many MIDI files that George has provided for use at the Player-Care Web Domain. Many Thanks George. Also, check out the link near the top of the [Home Page](#) to SlotTime Rolls & Records, part of Georges' company, Inlux Editions. Another of Georges' terrific 'Holiday' arrangements can be heard by [CLICKING HERE](#).

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*The Player Piano 411 Operator - We 'Keep The Music Rolling'*



[Technical Manuals .. \(click here\)](#)    [Test your 'Player'.. \(click here\)](#)

## *How Much Bellows Cloth Do I Need?*

[To Purchase Bellows Cloth -Click Here](#)

[For Information about Recovering Bellows -Click Here](#)

[For Information about Recovering Exhausters -Click Here](#)

Since there were/are so many different player system manufacturers, and considering that none of them ever listed the amounts or types of pneumatic cloth they used, you have to figure it out for yourself. However, this is not a difficult task. We'll start with the heaviest cloth, then the medium weight cloth and then move on from there to the thinnest cloth.

Listed below are the various devices found in a normal 88-note player piano. The various highlighted terms are linked to definitions. To return to this page after reading the definition/s, simply use the BACK button on your web browser.

Generally speaking, all bellows are made the same way. One continuous piece of cloth is wrapped all the way around the perimeter of the bellow, and the ends of the cloth overlap at the hinged end of the bellow. The amount of overlap varies depending on the size of the bellow. But, as a general rule, the overlap is one-third of the width of the bellow board. All bellows open a certain maximum number of inches (see [Special Note](#) below). The amount that the bellow opens is called the 'span'. So, with regards to the bellows cloth, every bellow has two important measurements; the span, and the perimeter.

Typically, the heavy weight cloth is only used for the [Exhausters](#) and the [Reservoirs](#). The average exhauster measures 15" X 12" and, therefore, has a perimeter of 54". The average span of an exhauster bellow is 6" or less. The average reservoir is usually slightly smaller than the exhauster if there are two reservoirs. If there is only one reservoir, it is always larger than the exhauster. Usually, there is a minimum of a three-

inch overlap for both the exhauster and reservoir bellows. So don't forget to figure that into the total. For larger bellows, consider covering them with two pieces of cloth as per this method.. [click here](#)

Typically, the medium weight cloth is used for the [air-motor](#) (or wind motor), [air-motor governor](#) (or governor), the [roll tracking mechanism](#) (or tracker), the [auto-sustain](#), and other peripheral devices like the Bass and Treble Soft pneumatics and any other '[control](#)' devices. Generally speaking, this cloth is for medium size bellows with a perimeter of 15"-25".

The perimeter and span measurements for the above named devices varies to such an extent from manufacturer to manufacturer that it is impossible to quote any meaningful averages. The only way to insure that you purchase enough cloth to do the job is to measure each device separately. .

Finally we come to the thinnest cloth (or striker pneumatic cloth). This cloth is usually only used for the small striker pneumatics (or note bellows) that activate each of the notes of the piano action. However, some manufacturers also used this cloth for air-motors and other medium-to-small bellows. When in doubt, use a micrometer and measure the thickness of the cloth. All striker cloth is less than 0.010" thick. The average is 0.009".

Determining the amount of striker cloth you'll need is not very complicated. First, there are normally 88 striker bellows. Second, almost all striker bellows have a maximum span of 1-1/4". (Bellows with larger spans are usually only found in nickelodeons, orchestrions and band organs.) Third, almost all striker bellows have a perimeter (including the overlap) of less than 14". Doing a little quick math, we have  $88 \times 14" \times 1\text{-}1/4"$  or 1,540 sq.in. of cloth.

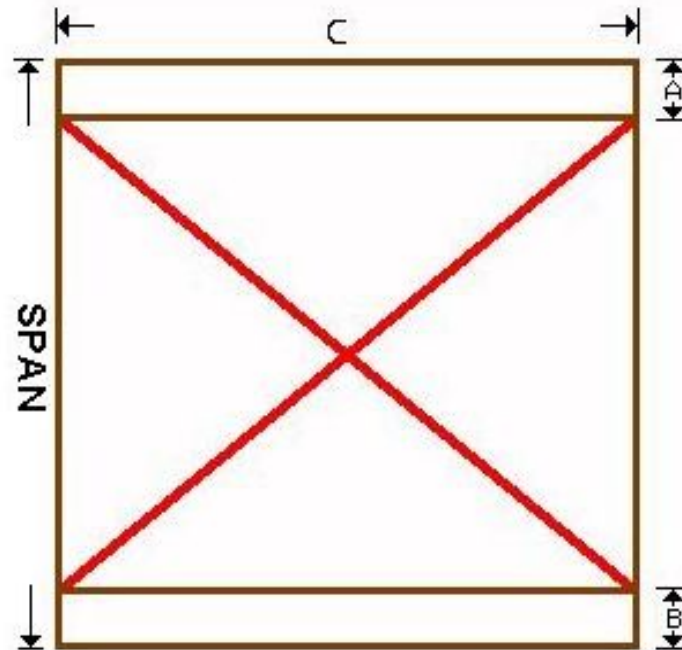
Striker cloth is sold by the running foot, and the bolt of cloth is never less than 48" wide. Therefore, dividing the total number of square inches needed by 48" will give you the number of running feet needed to make all the bellows. Doing some quick math, 1,540 divided by 48 equals 32.083 inches, or approximately 2-3/4 feet. And since the cloth is sold by the running foot, you will need an average of three feet, or one yard of cloth.

**SPECIAL NOTE:** Please be advised that the above explanation presumes that the cloth will be cut in cross-wise strips and that you can fit four strips across the width of the cloth. However, remember that the cloth is only 52" wide and that  $14" \times 4 = 56"$ . Therefore, you can only get three strips from a 48" wide piece of cloth. That being the case, you can still get at least 88 strips of cloth out of one yard if you use the left over

piece and cut the strips lengthwise. ([See Graphic](#)) .

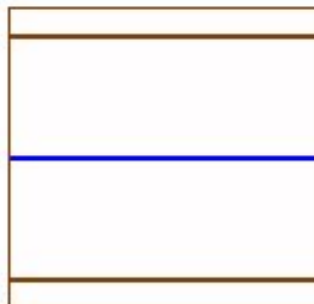
Special Note: People often ask me how to determine the correct span of a bellow if the cloth is missing or ripped. While it is somewhat difficult to figure out the [minimum required span](#), it is easy to ascertain the maximum allowable span\*. (See [Note](#) below.)

The rationale for this formula is that if the span is any wider than prescribed below, the opposing sides of the cloth will touch each other when the bellow collapses. If that happens, the cloth will wear out faster because of the friction created when the two pieces of cloth rub against each other.



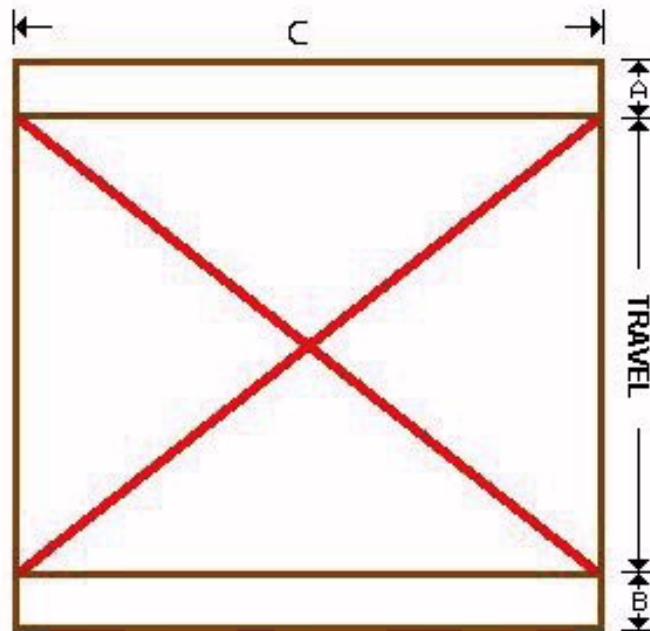
$$\text{Maximum Span} = A + B + C$$

\*Note: The only exception to the above 'rule of thumb' involves bellows that are folded as seen below. However, it should also be noted that bellows folded in such a fashion are always limited by some other factor so that the opposing edges never touch each other.



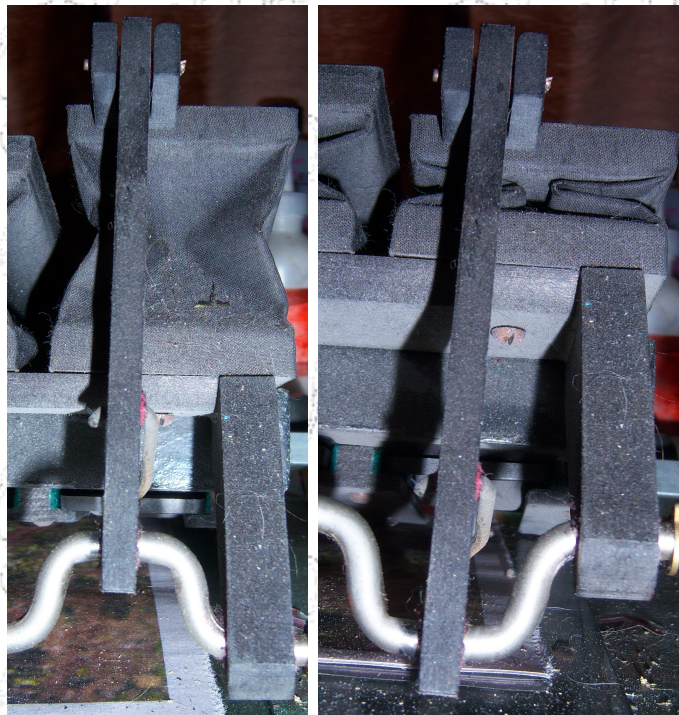
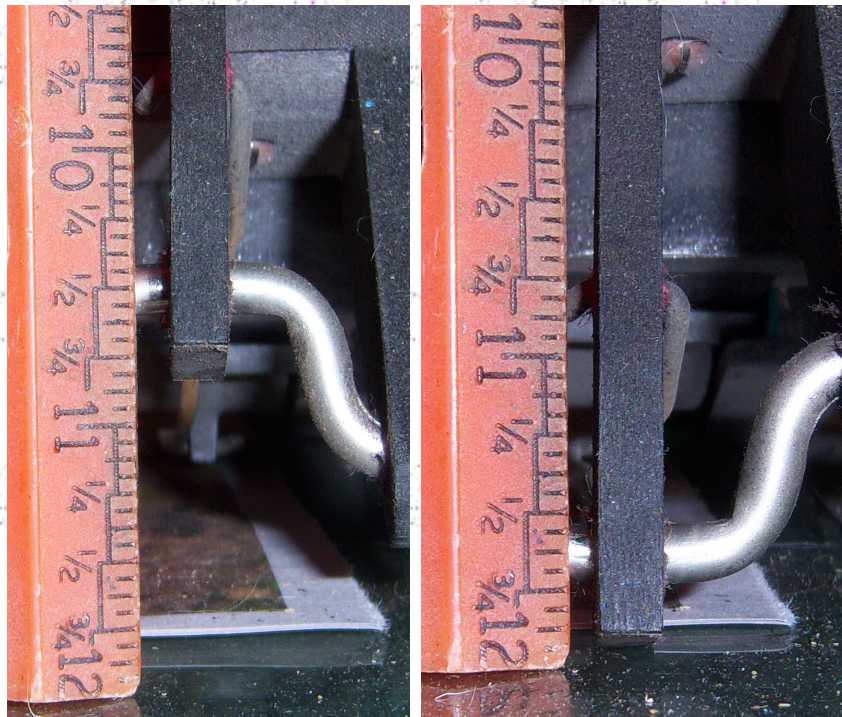


As a general guideline, the minimum required span for any bellow (that's used to control the operation of a mechanical function, i.e., tracker, sustain, bass/treble soft, auto-rewind, piano action, etc.), is determined primarily by the operating distance that the device must 'travel' from the 'On' position to the 'Off' position plus 25%. In other words, if the component being moved by the bellow must 'travel' a distance of 1" (one inch), the minimum 'travel' of the bellow must be 1-1/4". Do not confuse "travel" with "span". As explained previously, the 'span' of the bellow includes the thickness of the two pieces of wood. The 'travel' is the space "between" the boards. So, as seen below,  $SPAN = TRAVEL + A + B$



$$\text{Maximum Span} = A + B + C$$

When dealing with Air Motors, the important thing to keep in mind is that you want to operate the bellow "within the area of least resistance". And while that is a basic truth for all bellows, it's critical when it comes to air motors because if any of the bellows in the motor has any resistance to movement within the area of operation, the motor will NOT run smoothly. For this reason, the span of an air motor bellow is typically around 35% more than the actual 'area of operation', or the distance the bellow travels from open to closed while it's working. So, a bellow that requires a 'Traveling distance' of 1-3/16" will require a total travel of 1-3/4" to work efficiently. Generally speaking, the best rule of thumb, in this case, is to err on the side of too large of a span instead of too little. As well as showing how the travel is measured, the pictures below show what an air motor bellow should look like in operation when the cam is at its two extremes.



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for comments and suggestions  
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## "Tips and Tricks"

### Testing Old Bellows Cloth

#### [Reference Materials](#)



#### How Can I Tell If The Cloth Is Good or Bad?

The easiest way to determine the condition of bellows cloth is to feel it with your fingers. If it's stiff, it's bad. If it's supple, like a T-shirt, it's probably good. But you might ask, "How can you be so sure the cloth is bad if it's stiff?" Simple! All bellows cloth has a rubber coating. The coating can be on the outside of the cloth, or it can be sandwiched between two layers of cloth. The rubber coating is what makes the cloth air-tight. And, as most people know, as rubber ages it gets harder. At some point in time, the rubber loses its flexibility, and it ceases to bend. When that happens, and you force it to bend, it cracks. Think of an old rubber band.

However, when you're in a customer's home, and you're trying to explain to them why their player piano isn't working well, it can be difficult to convince them that the bellows cloth is part of the problem when it "looks" perfectly fine. If ever there was a case where the saying "Looks can often be deceiving" is true, this is it. As I said above, the condition of the cloth is determined by "feeling" the material. Below are two pictures. First you see a piece of what appears to be relatively good cloth. Next is that same piece of cloth being held up to daylight.



Just below is a picture of a small section of the first picture. Seen close up (or magnified), it's easy to see the threads of the cloth. But, humans don't have the ability to 'magnify' the images they see with the naked eye.





So, how do I convince a customer that the cloth needs to be changed when, to the naked eye, it 'looks' fine? My answer might surprise you. I make them an offer. First, I tell them how much it will cost to replace the cloth. Then I say, "I'm going to cut out a piece of the cloth, and we'll see if it's good or bad. If it's good, I'll replace the cloth for free. If it's bad, you'll pay me to replace the cloth." Naturally, I know before I take my scissors out of the toolbox that the cloth is bad, or I wouldn't make them the offer. However, over 90% of the people to whom I make the offer want "proof", and that's fine with me. I rather enjoy proving that I'm right.

Musically,

John A Tuttle

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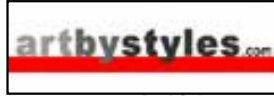


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# Left-Over Pieces Of Bellows Cloth

## (as of 10/10/2015)

Listed below are the types, thicknesses, dimensions, and costs of some left-over pieces of bellows cloth. These pieces are sold at a discount "AS IS". They will not be cut into smaller pieces. When ordering any of these pieces, specify them in the Comments Box on the Order Form as they are listed here. To order -[Click Here](#).

We have a variety of narrow strips of heavy bellows cloth (0.044") that are 6" x 60" and under that sell for \$8.00/sq. ft. We also have a number of strips of reed organ cloth (0.021") that are 9" wide (or less) by 56" (or less) that sell for \$5.50/sq. ft. If you need a strip of either of these two cloths, don't hesitate to write to me: [click here](#). Specify what you need in the Comments Box.

Type	Thickness	Dimensions	Cost
Peripheral Devices Bellows Cloth	0.014"	16" x 52"	\$72.25
Motor Bellows Cloth (heavy)	0.018"	23" x 35"	\$69.88
Reed Organ Bellows Cloth	0.020"	24" x 33"	\$30.25
Reed Organ Bellows Cloth	0.021"	12" x 72"	\$33.00
Reed Organ Bellows Cloth	0.021"	30" x 72"	\$82.50
Reed Organ Bellows Cloth (Will cut narrow strips)	0.023"	54" x 58"	\$6.00/sq ft
Reed Organ Bellows Cloth (Fleece Backed)	0.030"	15" x 30"	\$17.25
Heavy/Medium Bellows Cloth	0.035"	18" x 57"	\$42.75
Heavy/Medium Bellows Cloth	0.035"	17" x 45"	\$31.85
Heavy/Medium Bellows Cloth	0.040"	24" x 27"	\$33.75
Heavy/Medium Bellows Cloth	0.041"	19" x 38"	\$40.11
Extra Heavy Bellows Cloth	0.046"	20" x 31"	\$40.90

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*Signed: Craig Brougher*





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There are now Five New Audio CDs Available!! - [Click Here!](#)



A complete manual about the Don'ts and Do's of Pneumatic Devices. From the design considerations to materials, final construction, or repair techniques, every aspect of this book is written from the viewpoint of a skeptic who tests everything. The appendix on "testing" seems especially helpful to everyone. - [Click Here](#) .

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# PLAYER-CARE HIDE GLUE CRYSTALS

(Sold exclusively at Player-Care.com)

This glue recipe is prepared for [Player-Care](#) by [Craig Brougher of Brougher Restorations](#) for use in player piano work and is sold exclusively by Player-Care. It is what we believe to be the very best available at any price. The additives are blended so that the glue has more temperature latitude while maintaining its full strength. Cold shops may require preheating of the parts joined, however.

Pot life is inversely proportional to temperature, exposure time to air, and the number of times the pot is reheated. If you have a Hold Heet brand glue pot, it is strongly recommended to remove the aluminum bucket, as this is not suitable for most hot hide glue uses. Many formulations of glue including this one will gradually affect the aluminum bucket, chemically. While this is convenient once in awhile for large jobs requiring a 3" brush on warm surfaces, most of your work is going to be with small parts and should be contained in glass with a plastic lid when not in use. Stir the glue at the beginning of each day.

Vlassic sells a large jar of classic dill pickles that just happens to fit well inside your heating jacket of the Hold Heet pot. It has a smaller lid, which can be discarded, and the top of an 8-oz. plastic yogurt cup, like A&E, is substituted. It makes a perfect glue pot. The rim of the jar is great for wiping off the brushes, and because it's smaller, it holds the moisture from evaporating better. The plastic lids also prevent almost 100% of the moisture from leaving the glue, so if you are not using the glue, just turn off the pot until you are ready to use the glue again. (See new attachment: ["Using This Type of Hide Glue"](#))

To measure the temperature of the Hold Heet glue pot, fill your jar 3/4ths full of water, place a cut-down plastic coffee can lid or something in the bottom to set the jar on, and let it get fully up to temperature. Drop in a thermometer and check it. The pot should not get hotter than 150 degrees, Fahrenheit. (The plastic lid on the bottom of the pot also prevents the jar from getting glued into the pot in case of a spill.)

To set the temperature of the Hold Heet glue pot, remove the two small screws that attach the liner to the bucket. Spring out the handle if you need to and lift up the liner. There is a nickel-plated heat-adjusting thermostat nut with a little sealant on one side to prevent it from turning. Turn the nut clockwise to increase the temperature, counterclockwise to decrease it. Don't replace the screws until you can be sure that the pot is reliable at about 145 degrees. This is the temperature that your glue will last longest at, and still work well.

To make the glue, pour the crystals into the jar and add water to about 3/4" above the crystals. Add water later to get the right consistency. By placing Styrofoam "peanuts" of the non-biodegradable type into the pot jar, you will be able to leave the lid off, float your brushes, and work all day without adding hardly any water.

Consistency is everything, when working with hide glue. Some workmen use 3 plastic squeeze bottles of different consistencies in the

heating jacket. Bottles are more convenient, but brushes are neater. If you will buy white bristle (hog) brushes, like the long stemmed ones sold by Van Dykes of Woonsocket, SD, they won't collapse, sitting on the bottom of a glue pot. But you will need 3 artist brush sizes: #2, #4, #7. You also need a touch-up type natural white bristle brush of the 1" variety (for pneumatics).

When working in a cool environment, the glue should be used with a thinner consistency. If you then need the "death grip" effect of heavier glue, just apply a sizing coat on one of the parts and let it set up first. When covering pneumatics, use thinner glue and a wide brush to keep the glue warm. Put the cover around it before the glue can start to gel. If you doubt your ability to use this glue in the time window allowed, just iron them down before completely dry. Double glue all large bellows and always iron their covers after they are well-set but not completely dry. When you see tiny beads of reheated glue oozing out, you know that you have the right temperature and time with the iron. Hot hide glue is just like solder. A cold joint will not show up, sometimes for months, but it will always eventually fail. When in doubt, reheat.

Also read: USING THIS TYPE OF HOT HIDE GLUE - [Click Here](#)

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# Demonstration of the Electric Vacuum Pump Kit sold at Player-Care.com



Occasionally, people will ask about the safety and quietness of the pump kit. And, sometimes a picture can be worth a thousand words. While that is not entirely true in this case, the picture at the right does make it easier to understand why the pump is both safe and quiet.

After years of testing (since the early 70's), the one aspect of building a quiet pump that stands out above all other aspects is noise dampening. For many years, the pump motor was supported by moderately soft rubber that had very little compressibility. While this was convenient, it still allowed the vibration of the motor to be transferred to the wooden box -which for many years was made out of plywood. (We'll talk more about that shortly.) However, as newer rubber and synthetic rubber compounds were invented, it was found that softer, more compressible seals and supports reduced the transfer of vibrations significantly. Now, the top seal is made of a soft, compressible sponge rubber that provides

excellent air-tightness and a soft cushion. All around the perimeter of the motor, a very soft 1/2" sponge rubber lines the walls of the box to reduce the high-pitched noise created by the brushes and commutator as well as reducing the noise created by the rushing of air over the blades of the turbine (inside the motor). Next, the bottom motor support is comprised of three stages of dampening. The first stage is the thin fiber disk which dissipates the noise created by the bearing over a broad area. Below that is a relatively firm sponge rubber pad which absorbs the noise. Underneath the pad is the support platform. It is in this area that significant improvements have been made within the past few years. In prior models, the platform itself was only 3/8" plywood. Now, it is made out of 1/2" thick particle board, and the motor box is made out of 3/4" particle board (except the front, which is made out of plywood for strength). It was discovered that particle board, with its millions of minute spaces between the particles of wood, absorbs (or traps) noise better than solid wood or plywood. Under the platform are two more strips of particle board that are lined on the bottom with the same sponge rubber used to line the walls of the box. Lastly, there's a swatch of carpet material stapled to the bottom of the pump. It serves two purposes. One, it helps isolate any vibrations in the pump box from the bottom of the piano, which acts somewhat like a soundboard. Two, it provides a surface to which an adhesive can be applied to secure the pump box in place, insuring that it won't move during shipping. Together, these features eliminate virtually all of the motor noise. Further, the design of the platform forces the air moving across the turbines (which creates about 90% of the noise of a vacuum pump) to change direction, which helps decreases the noise of the moving air. For safety, all of the wood and sponge rubber near the motor are lined with fire-resistive foil.



NOTE: Applying an external vacuum source to a player system via a "T" fitting can only be done in a few player systems. Namely the Simplex and early Aeolian players. Almost all others have devices inside the exhauster assembly which control the flow of vacuum to the stack, air motor, and air motor governor (and other peripheral devices -if there). A better alternative to drilling a hole in the reservoir is making a new spring access panel. Most reservoirs have a spring access panel on the front or back of the reservoir. So, you can remove and save the old one for when you want to return the system to its original state.

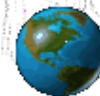
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## Installation Instructions for the Electrification Kit and the Full Automation Kit

The Basic Installation Instructions for both systems are identical with regards to the Vacuum Pump and Electronic Controller. The Full Automation system requires two more components and some variations in wiring.

To purchase either the Electrification Kit or the Full Automation Kit - [Click Here](#)

Basic Electrification System:

[Written Instructions](#)

[Picture](#)

Pictures of the parts in the Full Automation Kit  
(Tubing Not Shown)





Additional Components for the Automation System:

[Automatic Shut-Off after Re-Roll](#)

[Installing the Auto Rewind Mechanism](#)

[Tips on Installing the Device and Explanation of How It Works](#)

[\(pictures and correspondence with a customer\)](#)

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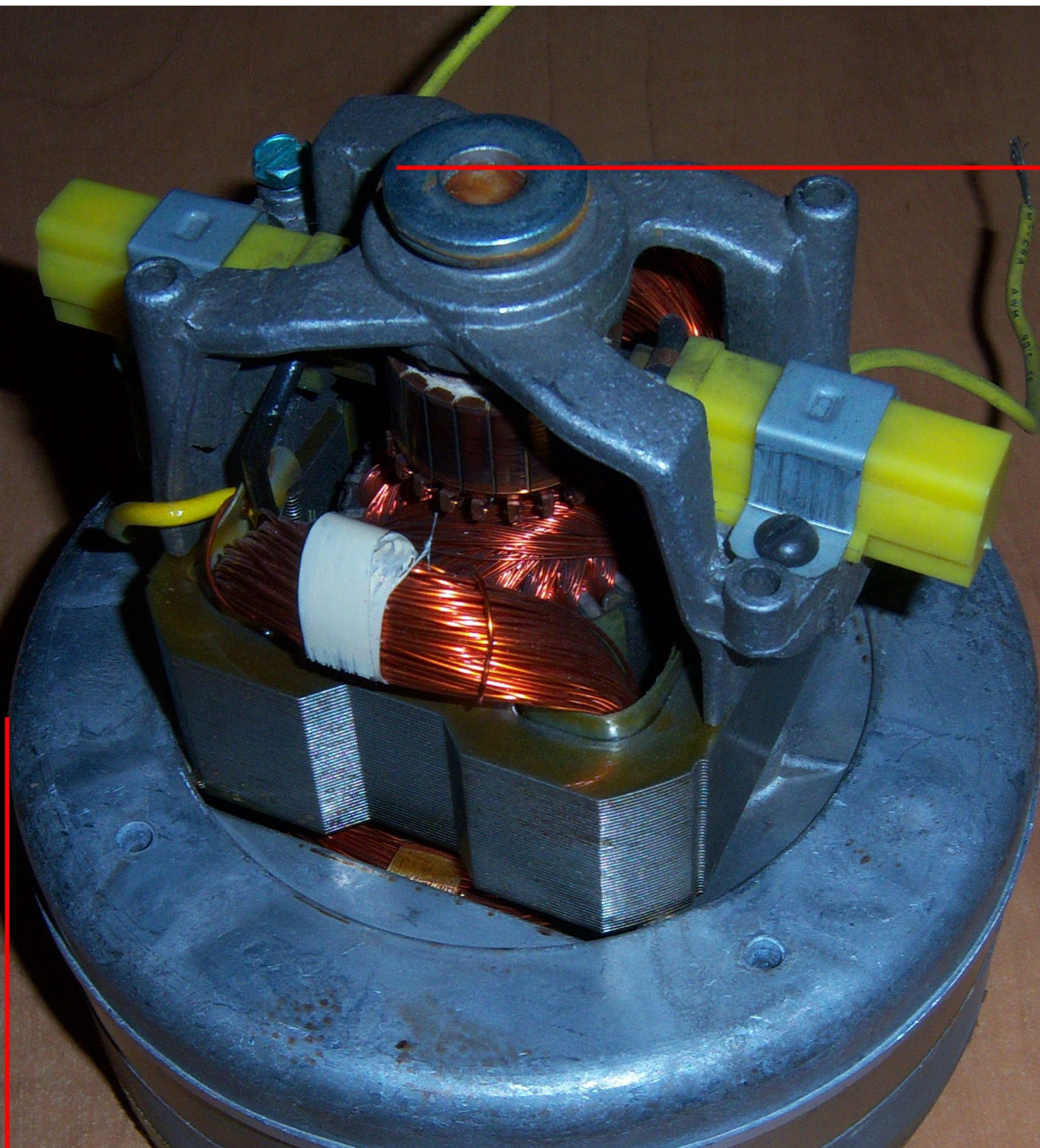
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A blue circular object, possibly a lid or a base, is positioned on a dark brown wooden surface. A red dimension line is drawn across the width of the object, with the text "5-5/8\"" written in red below it. The text is in a stylized, slightly italicized font.

5-5/8"













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## Advantages of Phenoseal

At the risk of offending all those who swear by shellac as "the best sealer" just because it has been around for a long, long time and certain companies only use shellac as a sealer, allow me to present a few of my findings and opinions.

Recently, I poured an 1/8" of Phenoseal into the lid of a plastic container and let it dry overnight. The next day I carefully removed the 'film' and tortured it for a couple of days. I started by placing it under a 140 degree heat lamp for three hours. Then I put it in the deep freeze at zero degrees for 24 hours. Then I put it in a 750 watt microwave set to High for a minute.

Guess how it looked and felt when I was done?... Other than a very slight discoloration, which was caused by the microwave, it looked and felt exactly like it did after it dried. It was still as flexible as before testing was started, it had no cracks, it wasn't 'sticky', it didn't melt, and it was still 100% air-tight. Try that with shellac....

I started using Phenoseal just over ten years ago when I was desperate to fix internal leakage in Simplex block valve/ pneumatic units. After trying shellac, which seemed to take forever to dry, I called Durrell Armstrong and he suggested that I try Phenoseal. After seeing how it soaked into the wood, and dried in less than an hour, I put the shellac away. From that point forward, I tested it on various devices and materials to find out the limits of this great product. I've even used Phenoseal to seal the windows in my home instead of spending hours scraping off the aging caulk and then re-caulking.

Unlike shellac, which cracks as it ages and therefore leaks over time, wood sealed with Phenoseal will NEVER leak unless the wood cracks badly\* (see note below). Phenoseal also works as an excellent sealer around the edges of bellows, where air can seep through the cloth. Phenoseal is so thin, it actually seeks out and fills tiny cracks in wood that are invisible to the naked eye. When used to fill larger cracks, it creates a 'flexible' repair that will compress and stretch without breaking. This is especially useful when repairing cracks in the windchest of a 100+ year old reed organ, or other piece of wood that isn't under constant stress. (In other words, it isn't necessarily a strong glue, although it does have some of the properties of glue.)

\*Note: Wood sealed with multiple applications of Phenoseal will not leak even if the wood develops small cracks. This is because Phenoseal stretches. Try it yourself. Coat a piece of veneer with three coats of Phenoseal and (after it's dry) crack the piece of veneer in half. It won't come apart on its own. You have to physically pull it apart. That's because the Phenoseal is holding it together. Try that with shellac...

Phenoseal also works as a great leak detector. Painted on the surface of aging bellows cloth while vacuum is being applied, it gets sucked in through the microscopic holes in the rubber layer. And, since Phenoseal is translucent white in color when wet, the area where the air-tight layer has good integrity stays milky-colored while the damaged area quickly returns to its original color, showing you exactly where it's leaking. You can also apply positive air pressure to the bellow and the Phenoseal will bubble where the air is leaking out. This can also be done with wood. In fact, that's how I discovered that it was air leaking through the wood in the Simplex valve blocks.

In closing, Phenoseal is also easy to use and clean-up is a snap because it's water soluble. So, all you need is hot water to clean the brushes or containers you've used to apply the product. All-in-all, Phenoseal is so much better in so many instances, and it can do so much more than shellac ever dreamed of doing, that I'm surprised that anyone has anything negative to say about the

product. Phenoseal is available at Player-Care.com. See link below.

Musically,

John A Tuttle  
Player-Care.com  
Brick, New Jersey, USA

**[To purchase Phenoseal or Return to Supplies Page -Click Here!](#)**

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for questions or comments contact  
**[john@player-care.com](mailto:john@player-care.com)**

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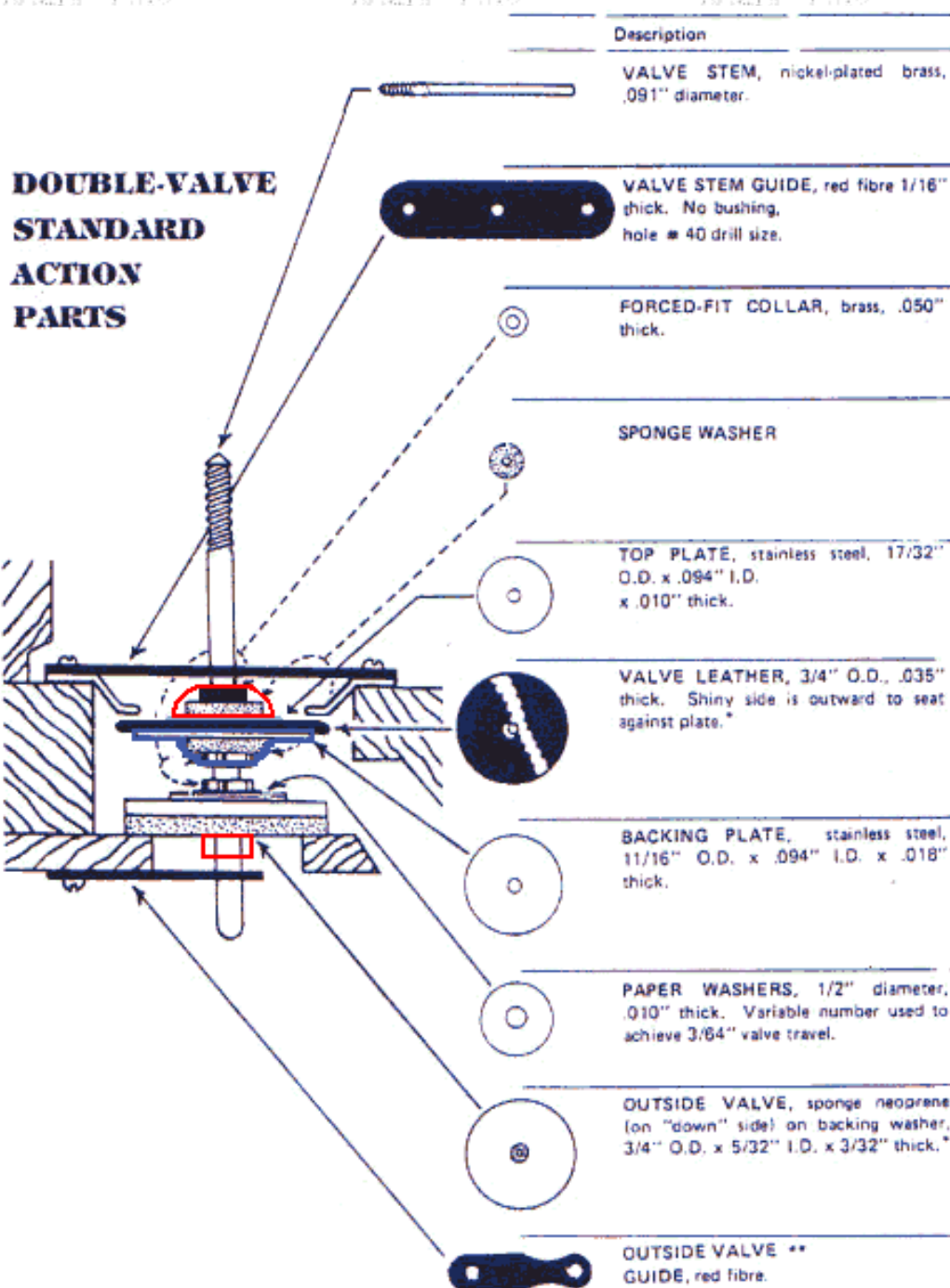
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## Tips and Tricks "Sealing Standard Valves"





**VERY IMPORTANT NOTE:** Do not remove the valves from the chest. This repair technique does not require the removal of the valves. It can be done with the valves in the chest. However, you do have to remove the tiers from the valve board. (See [IMPORTANT ADDITIONAL INFORMATION](#) and [DISCLAIMER](#) below.)

As the number of Do-It-Yourself rebuilders increases, so do the phone calls I get about leaking Standard Valves. While all professional rebuilders know that replacing 80+ year old valves is a must, many novices have neither the patience, tools, nor the knowledge to do the job successfully on their first (and possibly last) try. And while I in no way endorse the following "repair" technique as a panacea for deteriorating valves, it will improve performance in the vast majority of cases.

The most common point of leakage in a Standard valve is where the valve facing and the valve stem contact each other. On the intake valve facing, this area is not visible to the naked eye because it is covered by the force-fit brass collar and a round piece of thin pneumatic cloth or leather. On the exhaust facing, the area is visible, but it is very hard to access because the valve stem guide is in the way. However, with care, both areas can be accessed with a hypodermic syringe. (See areas marked in red in the above diagram of the valve parts.)

Armed with a hypodermic syringe or '[hypodermic oiler](#)' and a product called [Phenoseal](#), both valve facings can be sealed to the valve stem very effectively. The procedure involves drawing a thin bead of Phenoseal around the collar of the intake facing and a small bead of [Phenoseal](#) around the valve stem of the exhaust facing. The easiest way to accomplish the task is to hold the syringe stationary and rotate the valve facing with a large sewing needle.



Available for purchase (with 8 oz of Phenoseal) for \$8.00.

The picture above shows the bead while it is still wet. When the bead dries, it will be clear. And what is most important is that the bead will remain flexible forever. This allows the facing to 'wobble' correctly, which helps insure that the facing seats properly with the valve cap.

## How to Use the Oiler -Video-

---

In July 2010, it was brought to my attention by [John Rutoskey](#) that an even more effective repair would involve removing the valve and sealing the intake valve facing from the underside. I fully agree with him. I have noted the area that gets sealed in blue in the diagram at the top of this page. Also, there are two other important things to do. One, carefully mark the exact location of every valve plate, valve, and valve stem guide. They must go back exactly where they came from. Secondly, be sure to seal the valve plate when it is reinstalled. This can be effectively done by drawing a bead of Phenoseal around the edge of the valve plate after it has been put back in place, and before the screws are tightened. This allows a small amount of the Phenolseal to get between the plate and the wood, creating a good air-tight seal.

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DISCLAIMER: UNDERTAKE THIS JOB AT YOUR OWN RISK!! IF THIS JOB IS NOT DONE EXACTLY AS DESCRIBED, AND PHENOSEAL GETS ON THE VALVE FACING WHERE IT MAKES CONTACT WITH THE VALVE PLATE, OR IF PHENOSEAL GETS ON THE EXHAUST VALVE SEAT, THE VALVE FACING COULD VERY EASILY BECOME PERMANENTLY OR PARTIALLY GLUED TO THE VALVE SEAT. IF THAT HAPPENS, THE VALVE WILL EITHER LEAK VERY BADLY OR NOT WORK AT ALL. THERE IS NO ROOM FOR ERROR HERE!!! AND SINCE THAT IS THE CASE, I ASSUME ABSOLUTELY NO LIABILITY FOR ANY PROBLEM/S THAT MAY ARISE IF THIS PROCEDURE IS USED TO SEAL THE VALVE FACINGS TO THE VALVE STEMS..... SIGNED: JOHN A TUTTLE



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for questions or comments contact  
[john@player-care.com](mailto:john@player-care.com)

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## "Tips and Tricks" Installing Leather Nuts

### [Reference Materials](#)

The leather nuts of the old days were usually thicker than those of today. So, they had a bit more 'bite'. So, it's usually wise to use a nut that is slightly larger than the original nut as long as doing so won't impinge on the parts that the nuts are holding in place. Also, larger nuts are much easier to drill out to the correct diameter for the rods, and they're easier to install -because it's easier to hold onto them.

With regards to correctly 'sizing' the hole in the leather nut, I've been unable to find terms that adequately explain how tight they should feel when you thread them onto the rod for the first time. The old timers made the center hole just big enough so you could put paraffin on the rod and screw the nuts on by hand, but what might seem fairly tight to one person could feel relatively loose to another. It really depends on the strength of their fingers.

Leather nuts must never be so tight that they squeak or 'jump' when you turn them. Also, they shouldn't be so loose that they're 'easy' to adjust. (See how difficult that is to explain?) I suppose I could use a term like pretty snug, but that's so subjective that it's almost meaningless. For sure, they shouldn't be so tight that you can't twist them with your thumb and index finger. If they're that tight, you run the risk of breaking the part to which the rod is connected.

Regarding the installation of leather nuts on things like the control rods in air motor governors and stack cut-out boxes, it's imperative that the rod be held securely in place when the nuts are screwed onto the rod. Failure to take this precaution could lead to damage of the part to which the rod is connected inside of the box. I just use a pair of pliers to hold the rod in place with one hand while turning the nut onto the rod with the other hand.

Regarding the nuts that are used to secure a rod to a flange finger, the nuts should never hold the pneumatic fingers so tightly that the pneumatic falls from the fully collapsed position to the fully open position any slower than it does when the bottom nut is not on the rod. You can test this by putting both nuts on one rod and putting only the top nut on an adjacent pneumatic. Then collapse both of them, and then let both of them open at the same time. If the one with both nuts takes longer to open than the one with only one nut, the lower nut on the one with both nuts is too tight.

Another way to look at all of this is to realize that leather nuts are NOT lock nuts. They are, in effect, adjustable collars and they should be adjusted such that the part being moved moves in concert with the part doing the moving. In other words, there should be any delay, free space, or 'lag time' between the parts. As soon as one part starts moving, the other part should start moving. They should move in coincidence with each other.



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## The "Mandolin Attachment"

[Make your own replacement tickers](#)

Over the past century, various manufacturers have designed and built numerous types of attachments for the player piano. By far, the most popular attachment has been the "Mandolin Attachment". Due primarily to patent laws, these attachments have been given a variety of names like "Rinky-Tink", "Honky-Tonk", "Ukaland", "Banjo", and "Mandolin". However, they all operate in the same basic manner and have the same basic effect on the sound of the piano.

Most clearly stated, activating the mandolin attachment changes the tone of the piano from normal to "tinny". This is accomplished by placing a piece of hard material between the felt hammers and the metal strings. So, instead of the felt hitting the strings, the hard material hits the strings. Basically, three types of hard material have been used. They are metal, plastic and wood. These pieces of hard material are mounted on a flexible piece of material which, in turn, are mounted on some type of a "rail".



As you can see above, a piece of felt is placed between the hammers and the strings in the bass register. This is done to soften or 'mute' the bass register of the piano because it is typically louder than the tenor and treble registers. However, not all manufacturers used muting felt to soften the bass register. Some makers used heavy bellows cloth. Regardless of the material that is used, the intention of the manufacturer was to 'balance' the volume of the bass register so that it matched the other registers.



Regarding the basic construction of the "tickers", there are two basic considerations. One is "how tinny" the piano will sound, and the second is "how long it will last". Naturally, metal will last longer than plastic or wood. However, using metal produces a very tinny tone. So here again, selecting the 'best' material for the job is kind of a balancing act. The bottom line is that the aim is to use materials that render a 'balanced' tonal character throughout the entire range of the instrument.

The basic design of the tickers has remained consistent for the last 100 years. The length of each ticker should be 2 - 2-1/2 inches. The width of each ticker should be slightly wider than the width of a hammer head, or 3/8".



As can be determined by looking at the three pictures above, the rail is sized such that it fits between the two inner sides of the piano. However, numerous devices have been invented to bring the attachment into operation. The easiest 'on-off' device involves just one spring. The spring is attached to the rail such that it will hold the rail above the hammers when not in use. Then, disconnecting the spring allows the tickers to fall between the hammers and the strings. To limit how far the tickers will fall, a wood screw is screwed into both inner sides of the of the piano at the 'optimum' position. The optimum position is determined by the user. It is recommended that various depths be tested before the screws are put into place.

Another common device used to turn the device 'on and off' is a 'gear shift lever/cable' like those used for changing gears on a bicycle. Mounting the gear shift lever under the keyboard, this allows the user to activate and de-activate the mandolin rail without opening the piano. Here again, a spring is used to hold the rail in the 'up' position when not in use. Activating the shift lever then 'pulls' the rail into position.

As a word of caution, using a mandolin attachment for extended periods of time "WILL" deform the faces of the hammers. Typically, the faces of the hammers will become 'flat', increasing the hardness and/or tinniness of the tonal character of the piano. It is for that reason that it is recommended that the attachment be used sparingly.

## This kit is temporarily unavailable (as of 3/5/16)

A "Honky-Tonk Attachment" kit is available from one of my suppliers. The cost is \$168.00 + Shipping. The average cost for Shipping is about \$25.00 (Designed for Upright and Spinet pianos.) To order, use the Secure Order Form - [CLICK HERE](#) - and be sure to write "Honky-Tonk Attachment" in the Comments Box. Delivery in 3-6 days. Also, the metal 'mandolin rail tabs' are available for immediate sale. [Click Here](#).

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Since "Player-Care" is an internet business, I prefer that we correspond via [E-Mail \(click here to fill out the 'Request Form'\)](#). However, if I'm not in the middle of some other activity, you can reach me at 732-840-8787. But please understand that during the hours from 8AM-5PM EST (Mon-Sat), I'm generally quite busy. So, I probably won't answer the phone. If you get the answering machine, please leave a detailed message stating the reason for your call. Also, repeat your name and phone number clearly and distinctly. By necessity, I prioritize everything in my life. And, if you call and just leave your name and number, and ask me to call you back, it might be a day or two before I return your call. Why? Because I don't know why you want me to call and I might not be prepared to assist you in an effective and efficient manner. If you leave me an E-Mail address (which I prefer), spell it out phonetically. The more you do to help me, the more I can help you in return. Don't rush. You have four minutes to record your message.

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## *Instructions for using the Pneumatic Jig when making small bellows*

Here are the six-page instructions for using the Pneumatic Jig that was originally designed by Durrell Armstrong, the owner of Player Piano Company in Wichita, KS. You can click on any of the images below to see the full size image. Also, you can click [here](#) to download the PDF file which contains the same images.

### INSTRUCTIONS FOR PNEUMATIC JIG

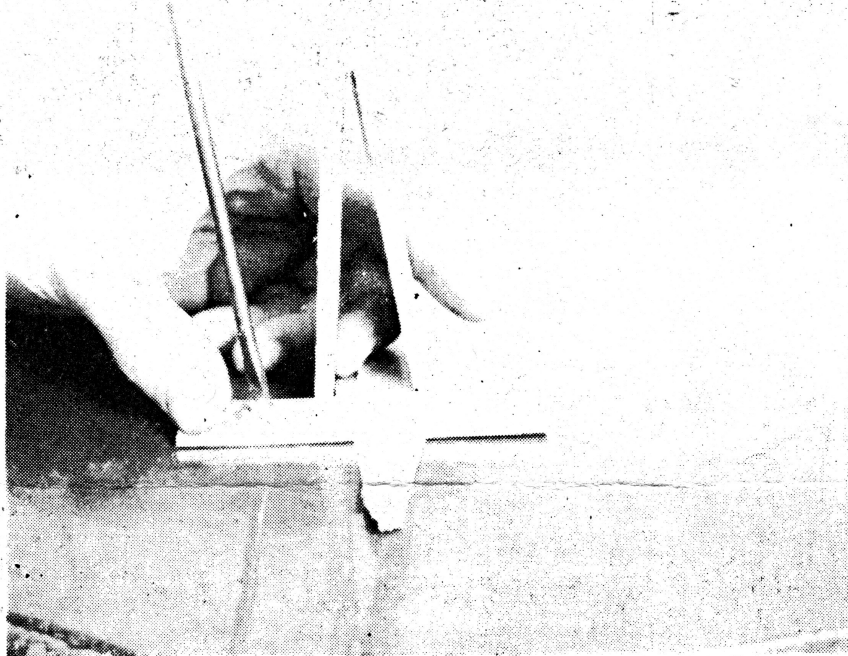
There are many methods for covering pneumatics. This simple pneumatic jig allows a great saving of time, because of its simplicity, over any system used. It is not awkward or any more inaccurate than the person using it. Great speed may eventually be picked up by professional users and it is possible to do the complete covering operation in one hour and fifteen minutes. Of course, the pneumatic sticks will first have to be sanded clean to the bare wood and rehinged if necessary.

The average set of pneumatics consumes one and one third yards of pneumatic cloth. Use the best grade (available from Player Piano Co.) The average strip of pneumatic cloth will be about one and one half inches by one foot. The pneumatic jig is easily adjustable to handle any size. The other materials you will need are good sharp scissors, a disc sander, coarse grade flint sandpaper, boot patch cement, a small bottle of Elmer's glue. Ground made glue crystals are recommended for gluing the pneumatics back on the tier.

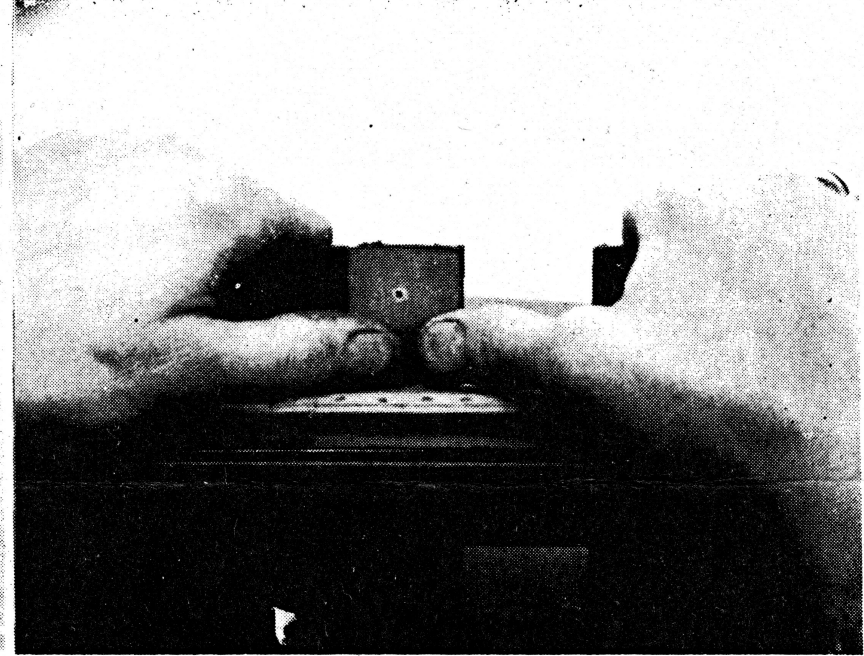
*Here are pictures and instructions to guide you step by step.*

1. *Take measurement of span and set pneumatic jig.*
2. *Number of the pneumatics, unless they are all identical and you intend to sand both surfaces on replacing.*
3. *Remove pneumatics.* Some pneumatics have a leather or cloth gasket glued underneath which makes it easy to remove. Others are glued wood to wood. Still, many actions may present no difficulty in breaking the glue without splitting the wood. Merely press with both thumbs and break it off. If it does not come off without breaking, then crack the joint at the hinge end with a wide chisel before doing this. This will break the glue joint from the opposite side up to the hole in the middle. Around the hole is where it is most likely to break. If all this fails, use a hot iron.



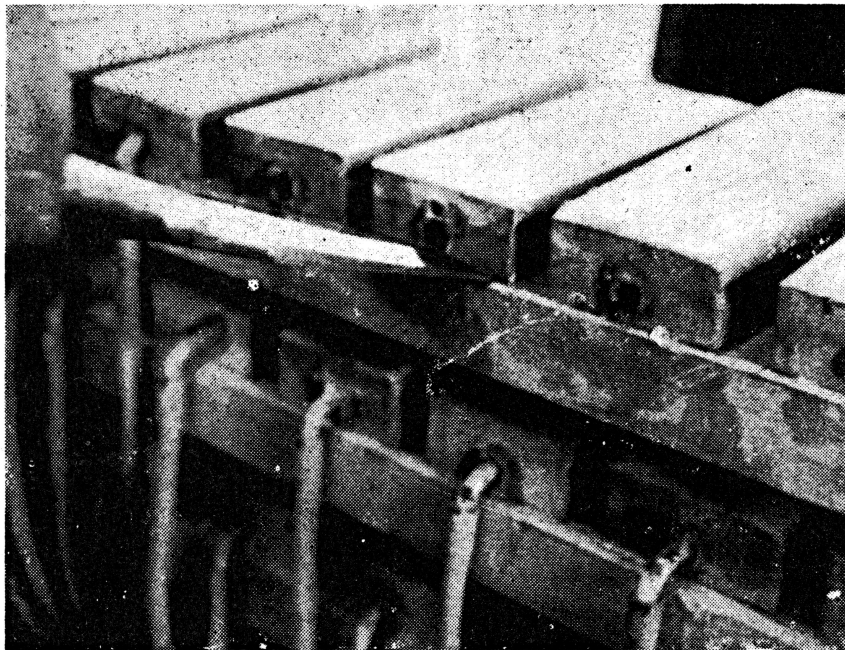


**SET SPAN**



**PRESS WITH BOTH THUMBS**

4. Heating off pneumatics. Cut the old cloth from the front and lay back the pneumatic leaf. Peel off most of the old cloth from the glued part as it will eliminate part of the smell when heat is applied. Try not to use a good iron regularly used for ironing clothes. If an old one is not laying around, a good used one can be bought at a second hand store for a dollar. It is worth a dollar just not to have the job of cleaning it after the job.



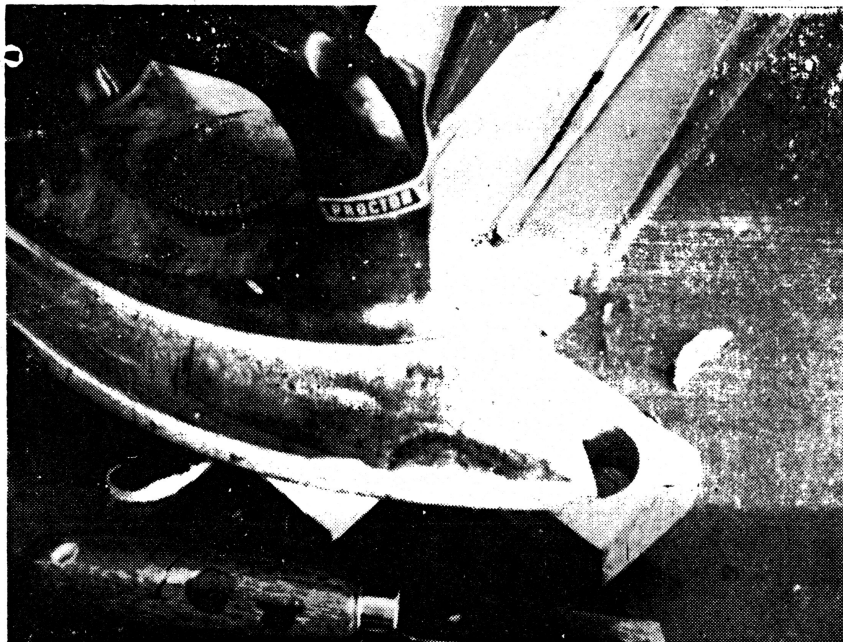
**CRACK HINGE END WITH CHISEL**



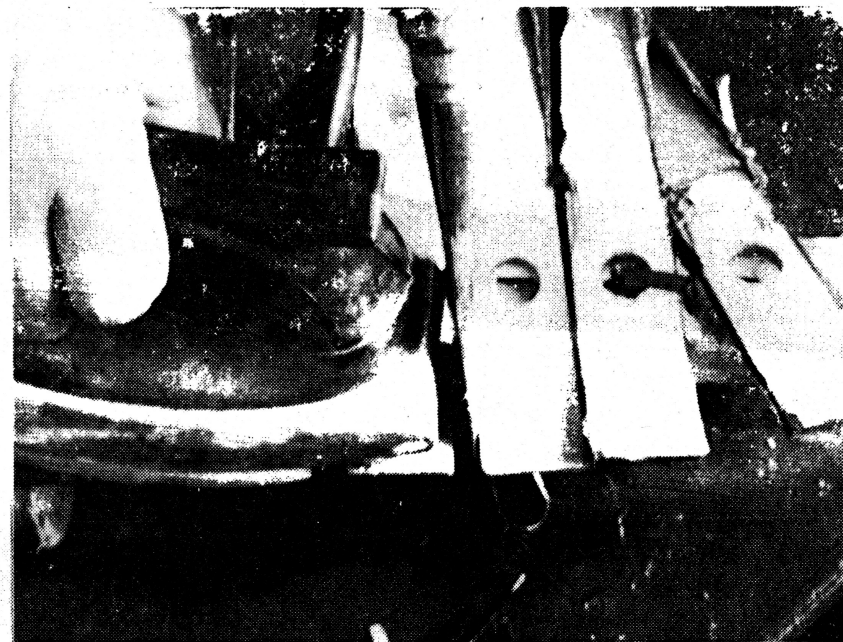
**SLASH OLD CLOTH FROM FRONT**



5. A slow penetrating heat is needed, rather than a high heat. Usually low temperature is right. It should take about one minute to penetrate to the glue depending on the thickness. About four at a time may be covered and so the iron may be moved along progressively taking one at a time, which will be about as fast and you can pry them loose once the iron is warmed up. It is better to pry sideways as the glue starts to melt. This will avoid warpage. Bending the wood while hot tends to form it that way.



**A SLOW PENETRATING HEAT**



**PRY SIDEWAYS IF POSSIBLE**

6. As the wood is heated, the moisture in the wood activates the glue into sticky part-melted state briefly. If the heat is left for too long, you will have defeated your purpose by actually driving all the moisture out of the wood and bake it on harder than ever.

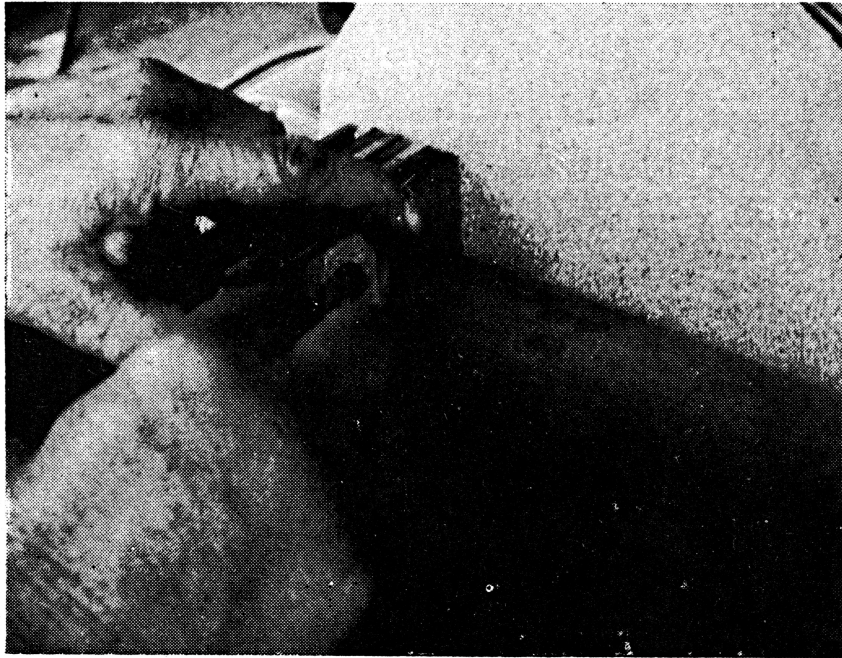
7. Sanding the pneumatic sticks. The edges must be sanded to remove all old cloth and glue. Don't bother to peel off any of the old cloth. It will use more sandpaper, as it will be clogged up quickly with the old rubber, however, the time saved by the extra sandpaper is well worth the money. Some of the original glue used to cover the pneumatics may have spilled over the inside edge and should be removed with a knife, file, or sanding, to prevent the sharp edge from cutting the new cloth.

8. *Use a circular sanding wheel or disc sander.* If you do not own a disc sander, a circular piece of plywood may be fitted to an old motor bolted to large pulley. Cover the disc with boot patch cement. (This may be purchased at any automotive supply store.) Cut the sandpaper with tin snips into corresponding circles and coat the back of the sandpaper with boot patch cement. After it has dried, the two surfaces will stick together as the sandpaper is pressed on over the disc. After sanding about a dozen pneumatics the sandpaper can be pulled off and another slapped on in its place without recoating the disc.



a dozen pneumatics the sandpaper can be pulled off and another slapped on in its place without recoating the disc.

9. *Sand four pneumatics at a time.* This will prevent bearing down too hard on one corner and sanding them crooked. Sand a little and look, then sand some more until all the glue and rubber is off. Keep a tight grip on the four pneumatics all the while. There may be several widths. These can be sorted out beforehand or picked up to match as the sanding is done. However, be sure they are all the same size and mashed down straight. The hinge end is sanded alone.

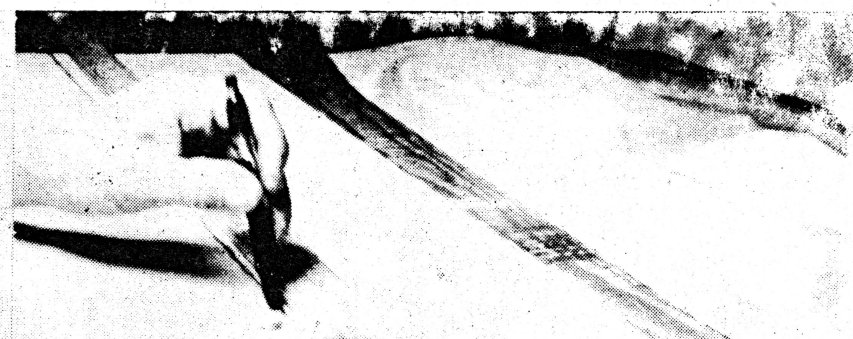
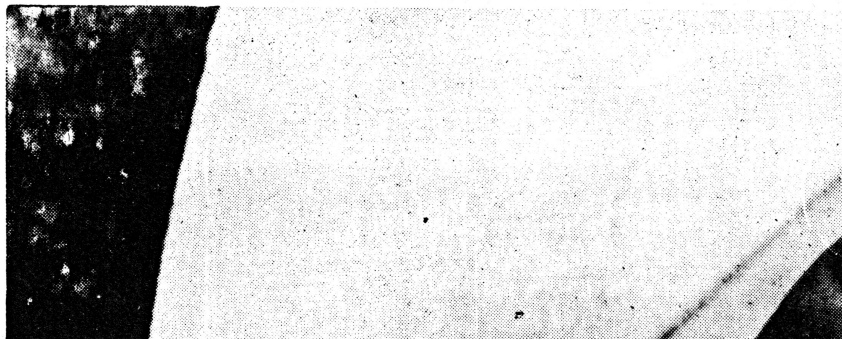


**SAND FEET FIRST**

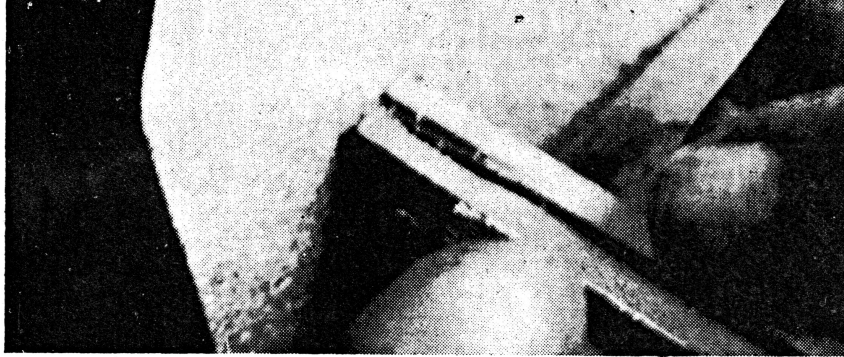


**KEEP A TIGHT GRIP**

10. *Sanding the hinge end to save the hinge.* The hinge end is sanded individually in two operations. By slipping the other out of the way or sanding at a slight angle, one edge at a time is sanded and misses the hinge cloth. The outer surfaces usually do not need to be sanded at this point. It is better to wait until the job is completed and after trimming.







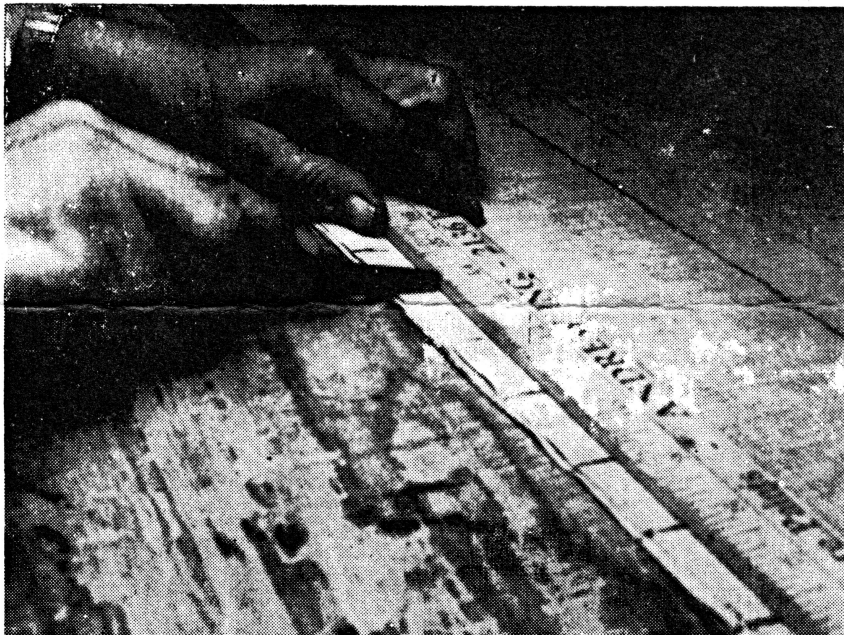
**SANDING HINGE END**



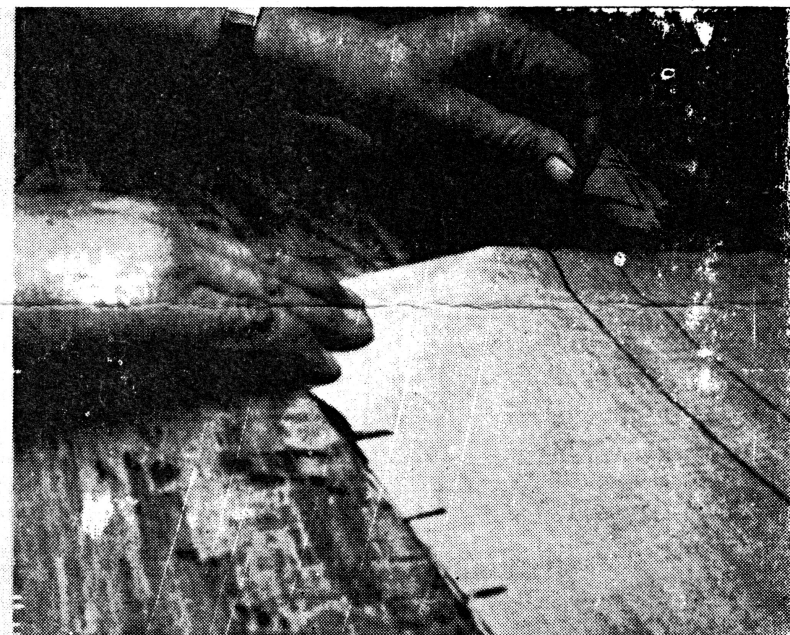
**MARK CENTER LINES**

11. *Cutting the pneumatic Cloth.* Measure around pneumatic and allow lap over on hinge end. Cut strip proper length by the yard width. Calculate width of the small strips needed and allow about  $\frac{1}{8}$ " trim to hang over on both sides.

This will average about one and one half inches. Four large pieces of cloth should be enough figuring 22 or 23 pieces from each.

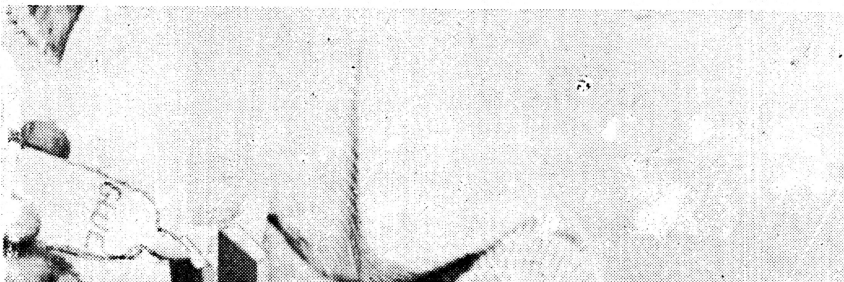


**STARTING CUT**

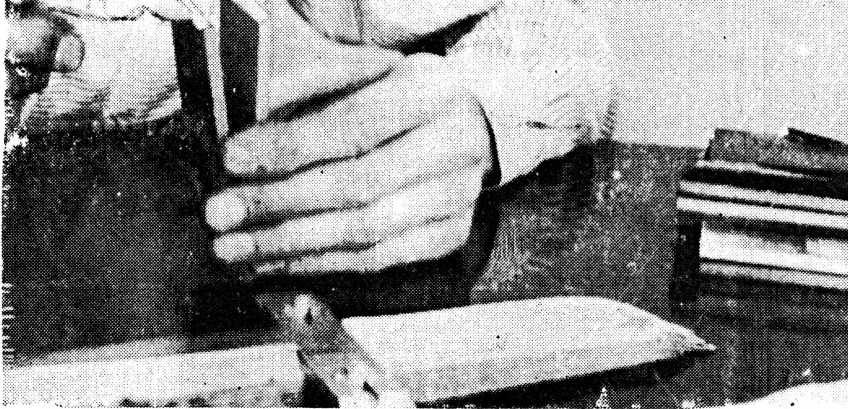


**TEAR FOUR AT A TIME**

12. Mark two center lines on the large strip of cloth. Lay them one on top of the other. Mark along the top piece at the edge of the cloth, the width of the strips, then make a starting cut with a knife. From this starting cut it may be torn four at a time. Collect them in a pile and jog them to the edge. Divide the pile in half. Lay the jig on top and you are ready to start. The purpose of working on the pile of torn strips is to give a cushion surface to work on.







**GLUING FEET**

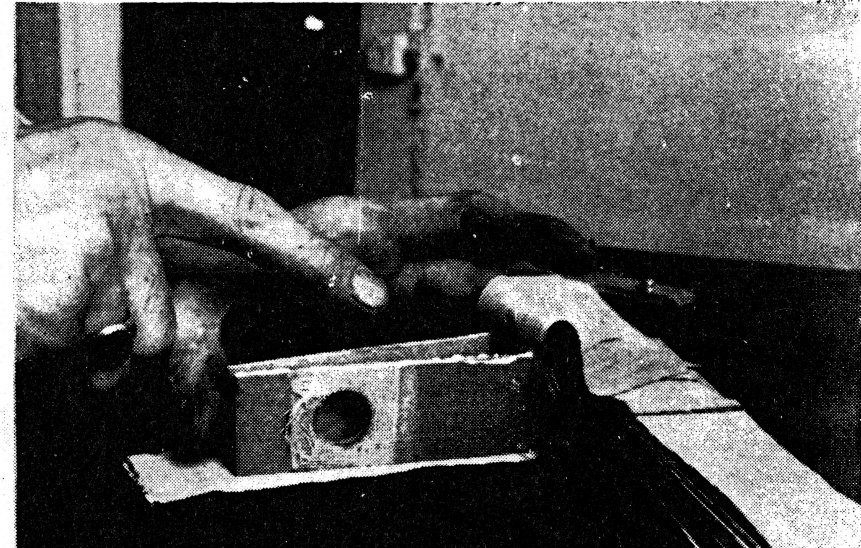
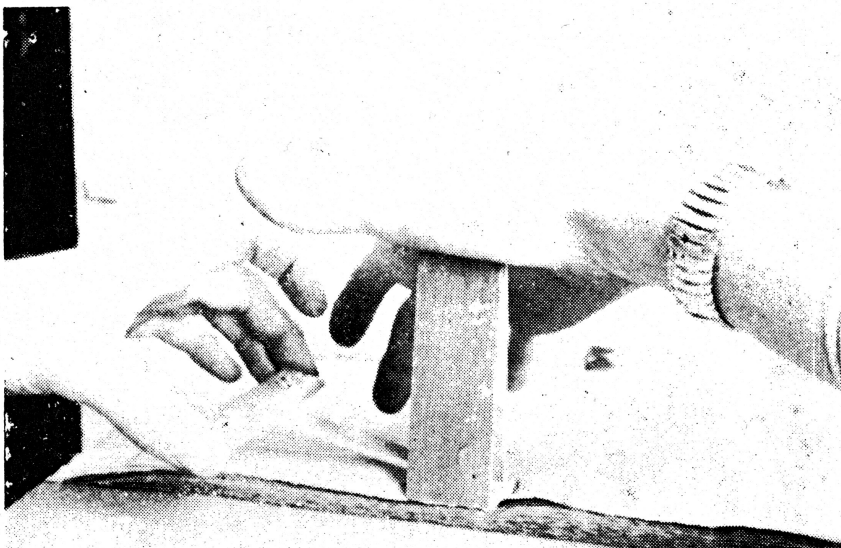


**SWING THE OTHER INTO POSITION**

13. Now is when the center lines come in handy. They show you exactly where to position the jig each time. Use a small squeeze bottle of white resin glue (Elmer's Glue) and squeeze a dab on each of the pneumatic feet. Pat with your index finger to even it out. You might as well get used to glue being on your finger all through this whole operation, because this is the quickest and most exacting way.

14. Plant the feet down, putting one in place and then swinging the other into position as shown in the picture. With thumb pressed on top, the jig is easily slipped out from between.

15. Lay on side and throw back cloth over your other index finger (the one without the glue on it). Draw a string of glue. It is not necessary to go all the way. If you don't get enough the first time you can squeeze out more. The glue may be distributed over the edge surfaces by raking your finger across and patting it into the corner. Then bevel the inside edge of the glue with your finger at an angle. This glue will squeeze out when cloth is pressed down, so it is not desirable to have more than a bare minimum of glue close to the inside edge. It doesn't matter how much is squeezed out the other side; this is trimmed off with scissors.







### JIG SLIPS OUT

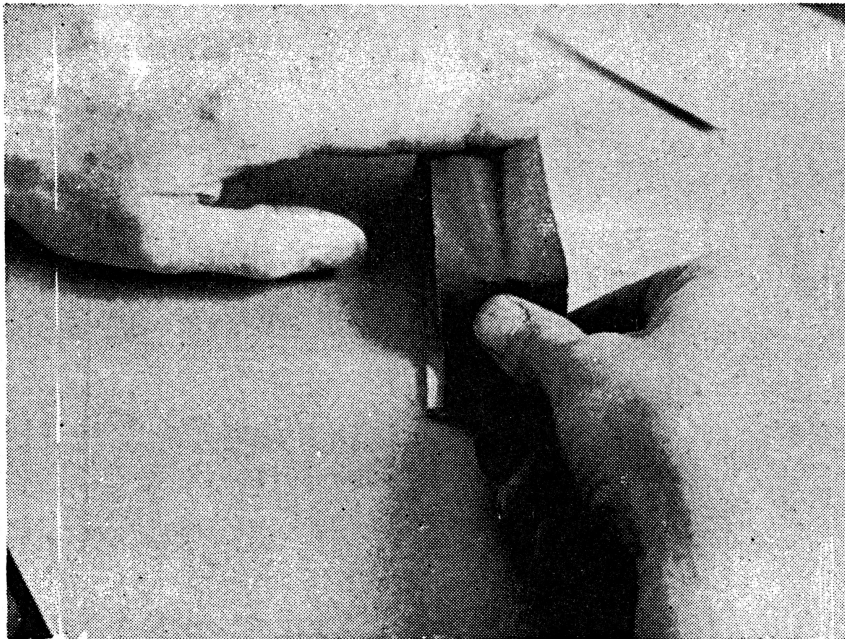
16. Move your hand forward and make several strokes to press the cloth down using the full length of all fingers. This way it will not be dished in the middle. All the while, keep the thumb of your other hand pulled down on the tail. Flip over and repeat the operation for gluing the other side.

17. At this point it is optional whether to go ahead with gluing the hinge end. Some prefer to take more time and make this a separate operation, allowing this much to dry, be trimmed, and clamp the pneumatic into a closed position. If so, lay the pneumatic aside at this point and begin trimming after a dozen have had the feet and sides glued. It is very essential to trim within ten to fifteen minutes or else the glue will become so hard as to handicap the trimming.

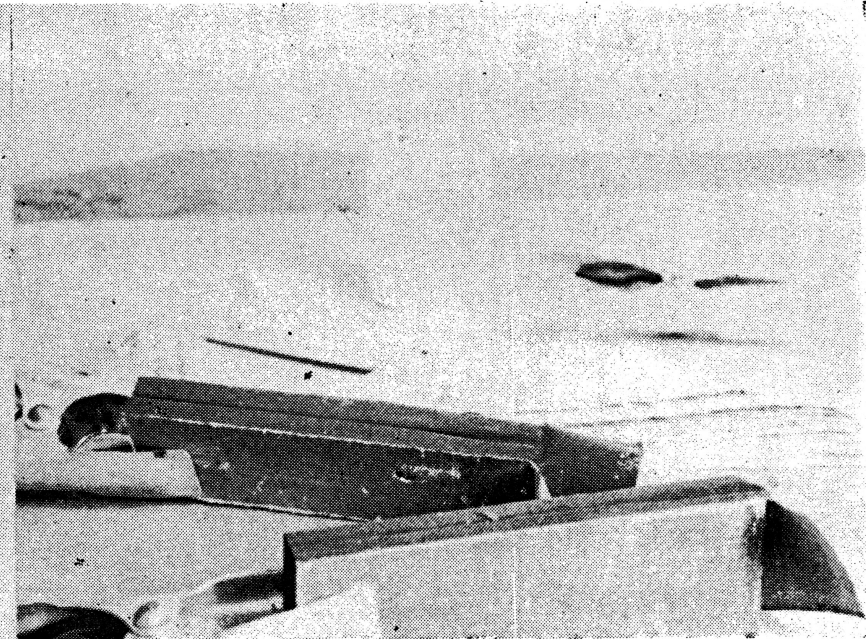
18. The reason for this separate operation, although it is not standard practice if speed is more important, is to allow the glue to be sufficiently dried to collapse and clamp the pneumatic in the closed position so that there is no danger of becoming hingebound. Hingebound simply means that too much glue gets in the very critical crack just beyond the hinge and gives resistance in collapsing. If a neat job is done, it will not be of great importance and you could continue on from step #16 without going to this extra trouble.



### LAY ON SIDE



**KEEP PULLING DOWN ON TAIL**

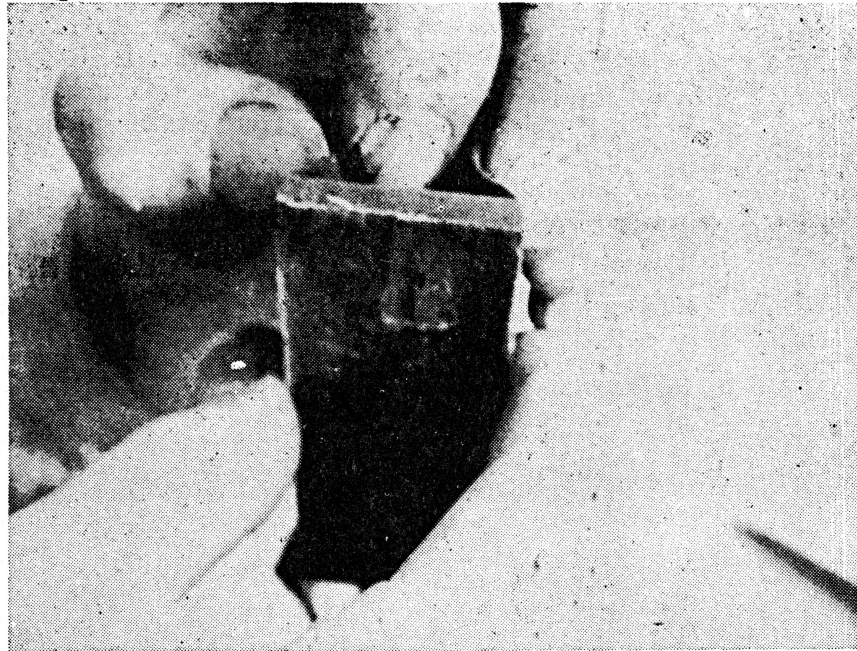


**CLAMP PNEUMATICS**

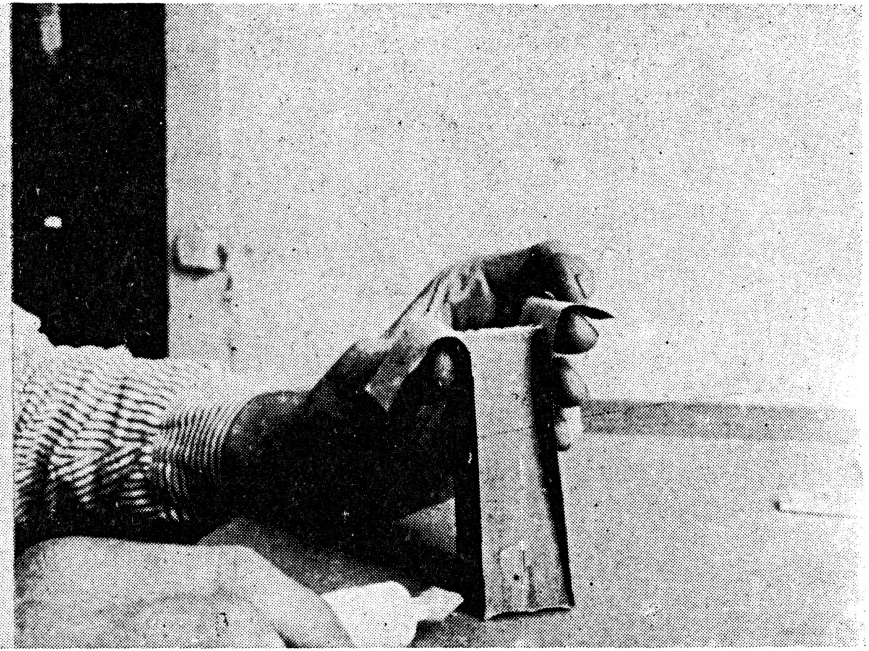
The crease is formed by poking with index finger and following with thumb and middle finger at the same time collapsing



The crease is formed by poking with index finger and following with thumb and middle finger at the same time collapsing the pneumatic.

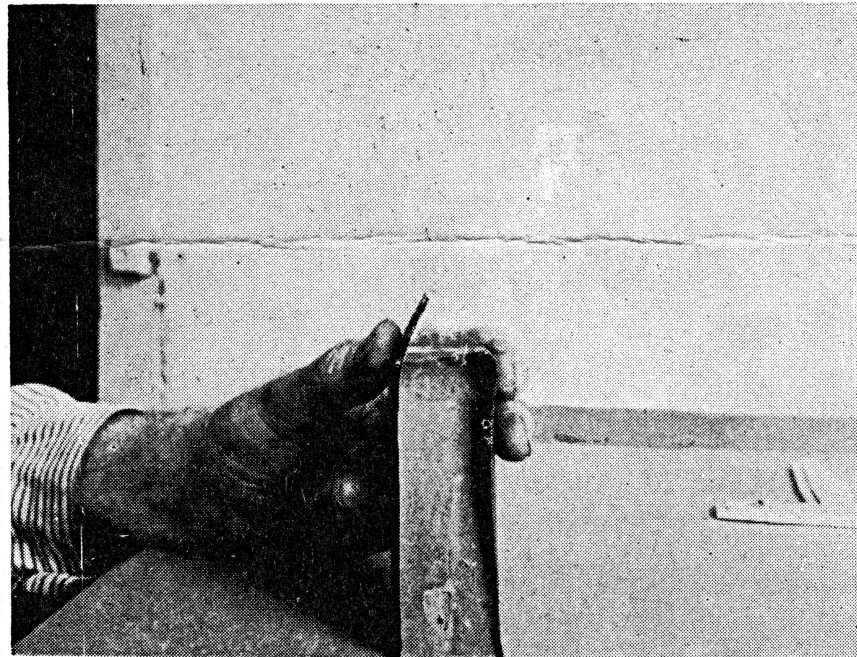


**MAKING THE CREASE**

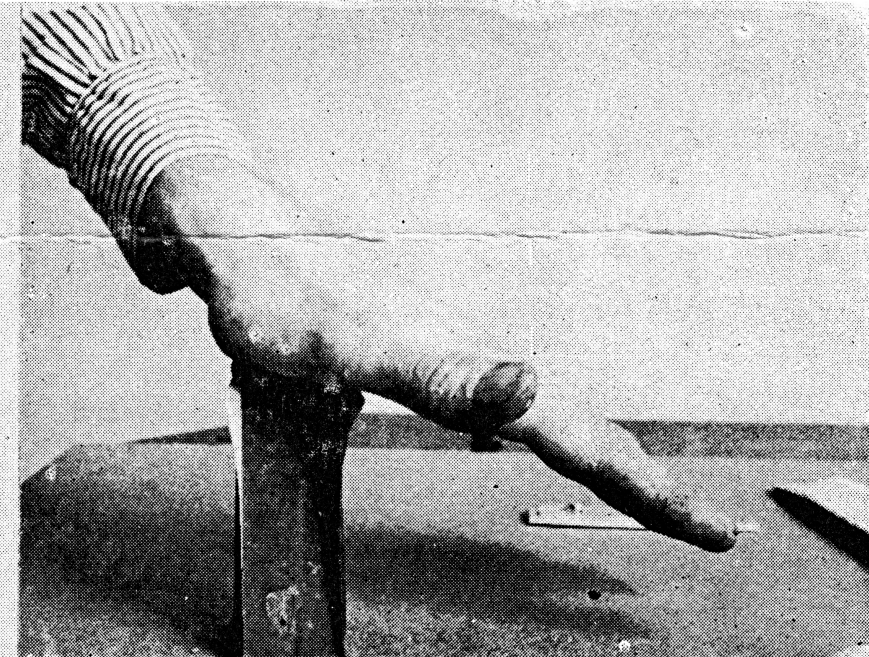


**CORNERS ARE IMPORTANT**

19. *Gluing the hinge end.* Usually there is almost enough glue left on your finger from doing the sides so only a spot of glue from the squeeze bottle might be needed for the final lap over. It is very important to reach into the corners with the glue and just as important not to get too much glue on. To make sure there aren't any loops on the corners due to slipping back, vise the pneumatic from end to end in the palms of both hands momentarily to make sure it is set, or just press down in its table position with palm of one hand after the tails have been lapped over.



**THE FINAL LAP OVER**

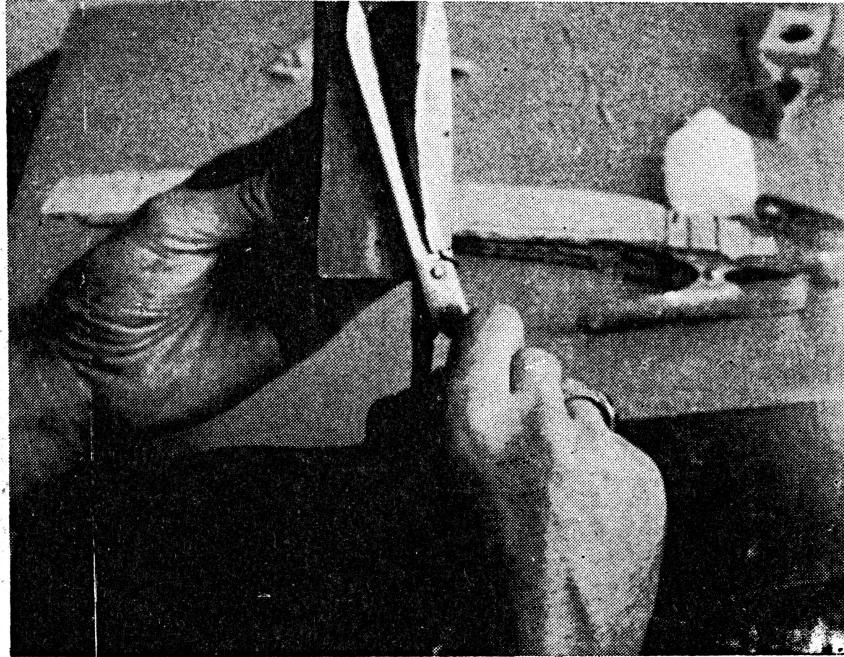


**PRESS DOWN**

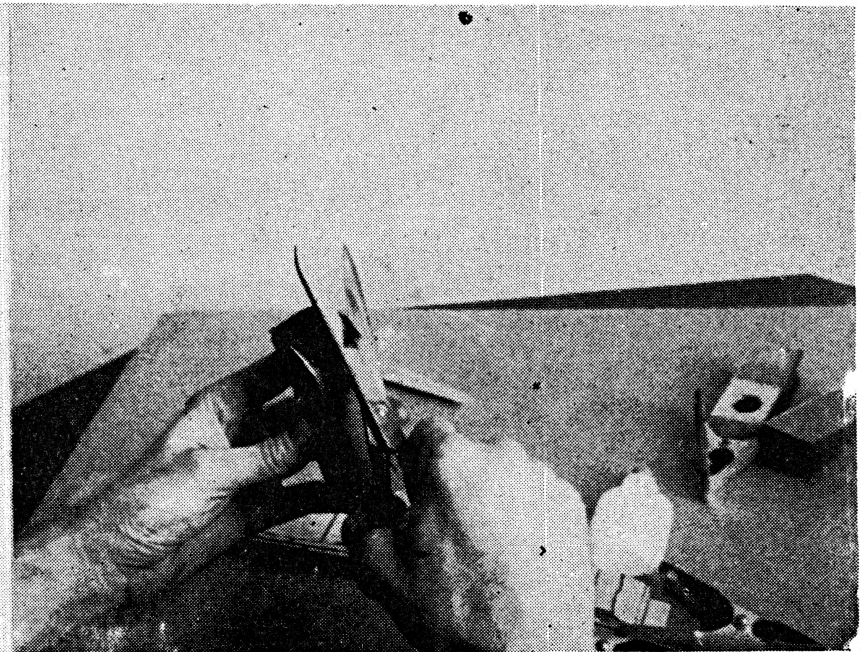


## THE FINAL LAP OVER

20. Trimming the pneumatic. Use good sharp scissors which are large enough to handle easily. Lay one blade against the wood and put pressure crossways on the two blades to prevent the cloth from slipping through. When you come to the corners it helps to make a quick down cut.



LAY BLADE AGAINST WOOD



DOWN CUT

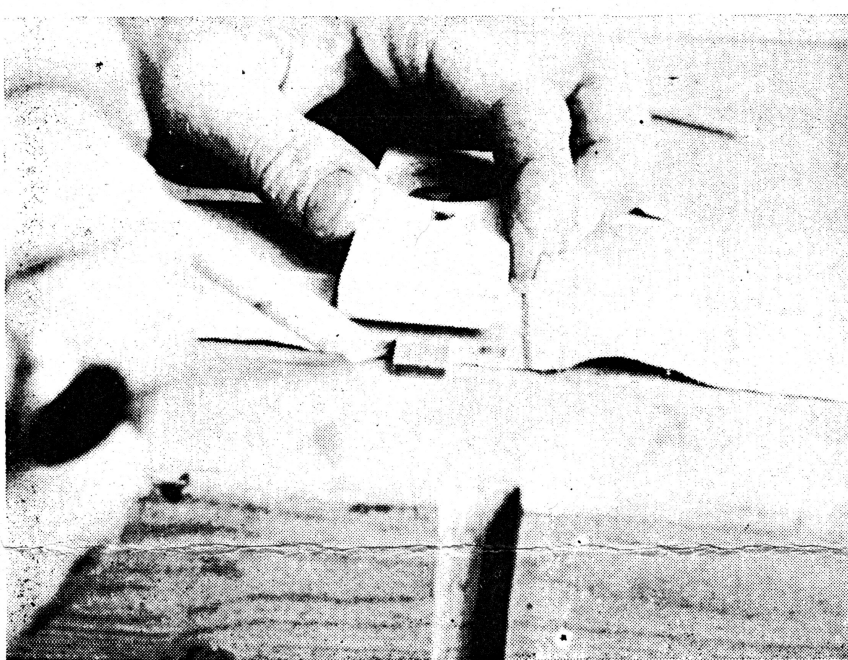
21. All that remains after trimming is to sand the surface to be glued. This is not always essential. It is best to sand both tier board and pneumatic face. By sanding tier board not completely through the old glue, enough of it remains to show lines of where it was originally glued. Hot animal glue is best for regluing. The reason for this is that the hot glue sets up quickly and has less shrinkage. Using it hot and thick, gluing only one or two places ahead and planting the pneumatic firmly down until the glue oozes out around the edges, it is quite apparent that there can be no leaks on the bottom surface. No clamps are needed. It will not spring up again if both surfaces are smooth and level. It will take less glue also. In less than one hour, the glue should be set firmly enough to begin reassembly of the action.

22. You do not need an electric hot glue pot to be able to use hot animal glue. A pan of water with a coffee can submerged containing the glue will suffice. The hot glue crystals may be just barely covered with cold water in a separate can and then set in a pan of boiling water to warm and dissolve. You will notice the glue will appear to swell up and look like you have not added enough water. Do not add more water. In a few minutes the glue will melt down and be just the right consistency. If it is too thick, then is the time to add more water.

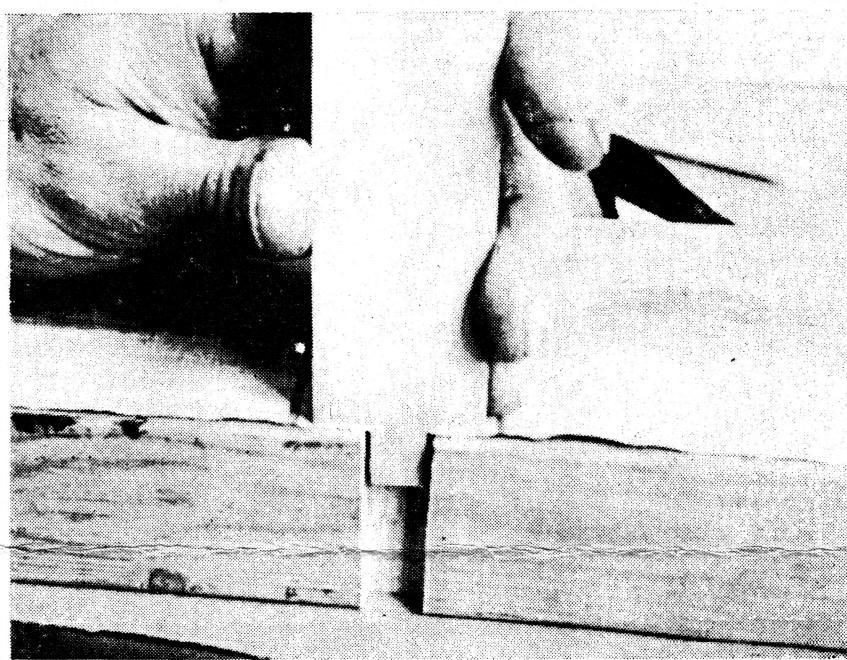
*Warning.* Never use bone glue. This has the same appearance as hide glue but has little strength after it has hardened, and will powder away or allow the pneumatic to fall off within a year. Always use a good grade hide glue and it will stay glued for a lifetime. Use the best ground animal glue—available from Player Piano Co.

*What to do when you have a pneumatic with a built in finger. Obviously you can't use all the method as described before without some modifications. So for the benefit of these cases here are special instructions.*





### MAKE SHORT CUT



### PNEUMATIC FINGER IN NOTCH

1a. Use a sharp utility knife to cut the cloth and make two short cuts about a quarter of an inch back from the edge, using the pneumatic finger as a guide.

2a. Make a notch in a board the same width and lay pneumatic cloth strip in position.

3a. Glue the one side with the finger this way and set it down in the notch over the cloth.

4a. Pick it up and inspect it and press down the flap that goes over the finger and make sure it is well in position and plenty of glue to seal the flap and corners. Time should be spent to remove any excess glue from the inside edge at this point. Set aside to dry.

5a. Drill a hole in a board. Apply glue to the other straight foot. Place pneumatic finger in hole. Insert jig and press down, rocking from hinge end. You are now ready to pick up from instructions #15.

**Player Piano Co.  
620 East Douglas  
Wichita, Kans. 67202**

**DESIGNED AND WRITTEN BY  
DURRELL ARMSTRONG**





## PNEUMATIC FINGER IN HOLE

**[Player Piano Reference Materials - Click Here](#)**

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# *Brougher Restorations*

## PLAYER-CARE HIDE GLUE CRYSTALS

This glue recipe is prepared for Player-Care by Craig Brougher of Brougher Restorations for use in player piano work and is sold exclusively by Player-Care. It is what we believe to be the very best available at any price. The additives are blended so that the glue has more temperature latitude while maintaining its full strength. Cold shops may require preheating of the parts joined, however.

Pot life is inversely proportional to temperature, exposure time to air, and the number of times the pot is reheated. If you have a Hold Heet brand glue pot, it is strongly recommended to remove the aluminum bucket, as this is not suitable for most hot hide glue uses. Many formulations of glue including this one will gradually affect the aluminum bucket, chemically. While this is convenient once in awhile for large jobs requiring a 3" brush on warm surfaces, most of your work is going to be with small parts and should be contained in glass with a plastic lid when not in use. Stir the glue at the beginning of each day.

Vlassic sells a large jar of classic dill pickles that just happens to fit well inside your heating jacket of the Hold Heet pot. It has a smaller lid, which can be discarded, and the top of an 8-oz. plastic yogurt cup, like A&E, is substituted. It makes a perfect glue pot. The rim of the jar is great for wiping off the brushes, and because it's smaller, it holds the moisture from evaporating better. The plastic lids also prevent almost 100% of the moisture from leaving the glue, so if you are not using the glue, just turn off the pot until you are ready to use the glue again. (See new attachment: "Using This Type of Hide Glue")

To measure the temperature of the Hold Heet glue pot, fill your jar 3/4ths full of water, place a cut-down plastic coffee can lid or something in the bottom to set the jar on, and let it get fully up to temperature. Drop in a thermometer and check it. The pot should not get hotter than 150 degrees, Fahrenheit. (The plastic lid on the bottom of the pot also prevents the jar from getting glued into the pot in case of a spill.)

To set the temperature of the Hold Heet glue pot, remove the two small screws that attach the liner to the bucket. Spring out the handle if you need to and lift up the liner. There is a nickel-plated heat-adjusting thermostat nut with a little sealant on one side to prevent it from turning. Turn the nut clockwise to increase the temperature, counterclockwise to decrease it. Do not replace the screws until you can be sure that the pot is reliable at about 145 degrees. This is the temperature that your glue will last longest at, and still work well.

To make the glue, pour the crystals into the jar and add water to about 3/4" above the crystals. Add water later to get the right consistency. By placing styrofoam 'peanuts' of the non-biodegradable type into the pot jar, you will be able to leave the lid off, float your brushes, and work all day without adding hardly any water.

Consistency is everything, when working with hide glue. Some workmen use 3 plastic squeeze bottles of different consistencies in the heating jacket. Bottles are more convenient, but brushes are neater. If you will buy white bristle (hog) brushes, like the long stemmed ones sold by Van Dykes of Woonsocket, SD, they won't collapse, sitting on the bottom of a glue pot. But you will need 3 artist brush sizes: #2, #4, #7. You also need a touch-up type natural white bristle brush of the 1" variety (for pneumatics).

When working in a cool environment, the glue should be used with a thinner consistency. If you then need the "a death grip" effect of heavier glue, just apply a sizing coat on one of the parts and let it set up first. When covering pneumatics, use thinner glue and a wide brush to keep the glue warm. Put the cover around it before the glue can start to gel. If you doubt your ability to use this glue in the time window allowed, just iron them down before completely dry. Double glue all large bellows and always iron their covers after they are well-set but not completely dry. When you see tiny beads of reheated glue oozing out, you know that you have the right temperature and time with the iron. Hot hide glue is just like solder. A cold joint will not show up, sometimes for months, but it will always eventually fail. When in doubt, reheat.

GENERAL INSTRUCTIONS: The normal ratio of water to glue crystals is 1:1.

Contents may be poured into a glass jar. Add water to barely cover glue crystals. Place jar into a pot of very hot water (145-



160 degrees). Glue will melt down in about 10-15 minutes, and about right for use. Add more water when evaporation requires it. Glue will keep almost indefinitely in the jar; when refrigerated. Just add a little more water when reheating (if necessary). It is extremely important that you DO NOT overheat the glue as this breaks down the proteins that give the glue its strength.

After I make up a batch of glue, I put it into six-ounce plastic squeeze bottles (each filled up about 2/3). That way I have a 'handy-to-use' container that I can put into hot water (145-150 degrees) for ten minutes and I'm ready to work. Also, keeping the glue in the squeeze bottles reduces evaporation to almost zero.

## USING THIS TYPE OF HOT HIDE GLUE

This glue is not the usual glue purchased from wood shops. It has additives in it to make it more adhesive to a wider variety of substances and to resist crazing when shrinking on external surfaces. One additive also gives it a slightly wider latitude of working time without affecting its strength.

It's recommended that other additives are not used with this glue, as they can react with the present chemistry and seriously weaken it.

The hides used in this glue are no longer chrome-tanned. Therefore it is far better not to leave your pot on overnight and over weekends. Reheat the glue each time before using it. It must be reheated slowly to prevent breaking down the long protein chains that make strong glue. A microwave can be used if set less than 40% duty-cycle and as long as the glue never gets over 150 degrees.

---

Working time and glue consistency are the two most important things in using hot hide glue. In normal temperatures, when the work is not preheated, the glue must be spread (flowed on) evenly, thinly, and quickly and the parts placed smartly together. This requires thinning the glue for your type of brush and the surface to be glued. Beginners usually use too thick a glue.

If covering pneumatics, make sure that all end grain is pre-coated. If covering large bellows, always double glue, and then iron down the covers. When gluing down pneumatics, make sure the shelves have been sized with thin hot hide glue, first. Do not clamp pneumatics or anything on flat surfaces that might slide. Spring or C-Clamps cannot exert all their force at right angles to the bond plane and force some flat joints to creep, making a cold joint and an out-of-alignment part. Weights are the proper way to use force on flat bond surfaces.

Hot hide glue actually does not need a clamp. It grips by gelling. However, water in the glue will cause wood to sometimes warp a little. If you suspect that thin boards may bow a little as they get wet, size that board first and allow to air dry. Use only fresh glue for wood to wood joints.



Preheating wood parts to be glued is a good way to assure good joinery and pneumatic covers, by lengthening the active time that glue can be spread and contact can be changed or compressed. However it may not be possible to preheat the parts. In which case, even cold glue joints can be reheated, as long as they are fresh, and they will be restored. Adding water to glue slows setting.

In making wood to wood joints, leaving excess glue around a fresh joint makes it much more effective to reheat the joint for surety, since excess glue conducts heat rapidly into the joint. Usually a hair dryer is all that's required. You can sometimes dampen the edges of the joint to aid this process. Remove excess glue then, after it has re-gelled and become semi-solid. Then use a wet rag or sponge and remove all traces of the glue. This is done so easily that the wood will stain exactly like the rest of the piece and there will be no telltale trace of glue on the surface.

### -----**John Tuttle's Method**-----

The glue crystals I sell are far superior to the old type that most rebuilders are accustomed to using. I never weigh the glue or the water. Whatever size container I'm using, I put in an amount of crystals, then add enough hot water to cover the crystals, and then I add another 20% water by eye. In other words, if the total depth of the glue and water in the container is two inches, I'll add another 1/2" of water. (Total depth [100%] = 2-1/2". So, 20% is 1/2")

Then I start cooking the glue. It normally takes 20-30 minutes for all the crystals to dissolve. Once they are dissolved and the glue is at 145 degrees, it's ready to use. The longer the glue cooks, the weaker it gets. I generally prepare the glue in small 8 oz. squeeze bottles. This allows me to squeeze the glue directly onto the wood in whatever size bead I feel is necessary, and it prevents the water from evaporating -which causes the glue to get thicker over time.

As always, the rule of thumb is, "Test, test, test". So before you actually start working on a project, test the bond of the glue on scraps of wood and cloth until you find the combination that gives you a quick set-up time and a great seal. Remember, regardless of how thin or thick you make the glue initially, you can always add a little more water or glue crystals to get it just right. For more detailed information about this glue, see: [http://player-care.com/brougher\\_gluing.html](http://player-care.com/brougher_gluing.html)



[To purchase an 8 oz. squeeze bottle -click here](#)

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This page was last revised on March 11, 2014

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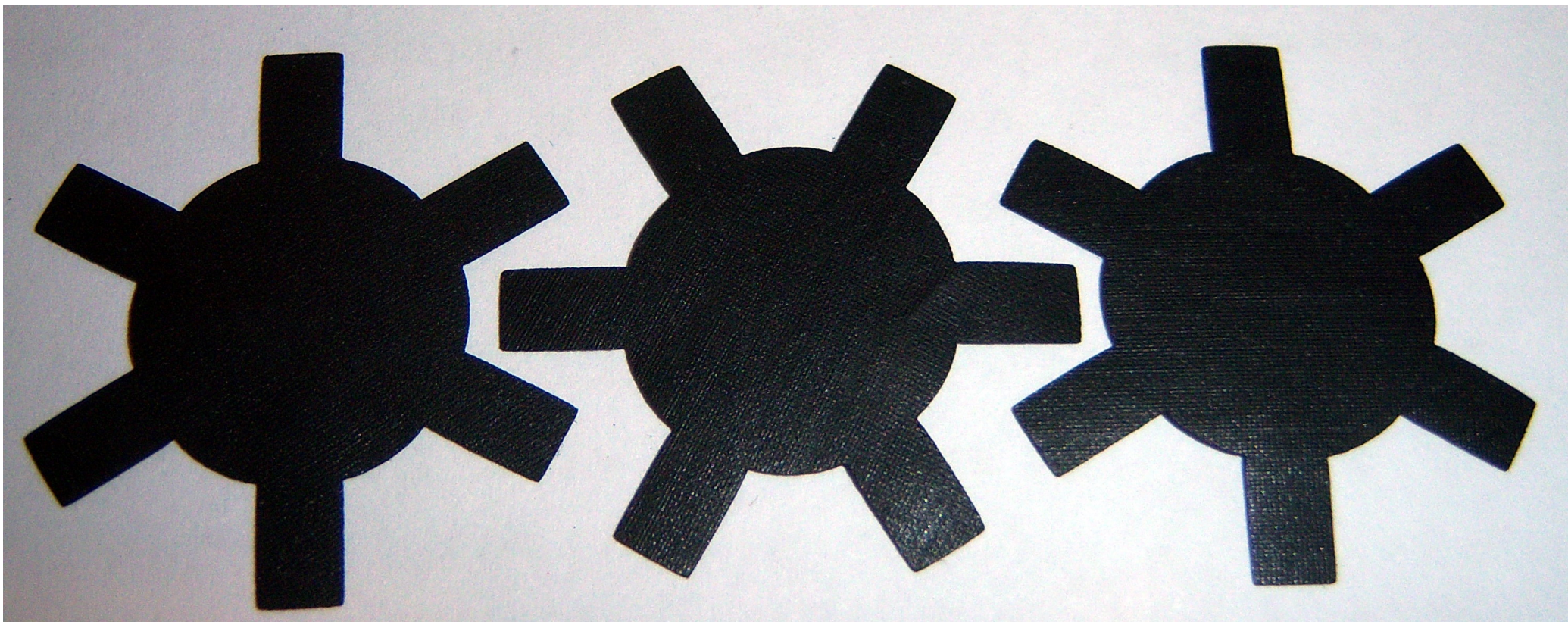
















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## "Tips and Tricks"

### "Dismantling the Lauter-Humana Block Valves"

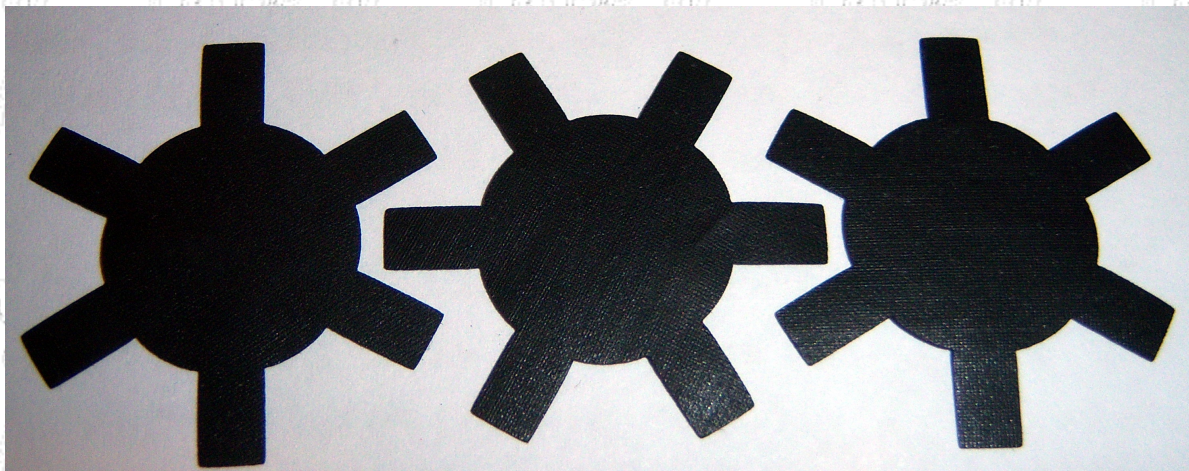
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#### [Lauter-Humana Intake Valve Facings](#)

After spending a number of hours trying various techniques to dismantle these blocks without causing any damage, it was found that steaming them apart is by far the most efficient method. Here's a video that shows the whole process.

More information about rebuilding these block valves is still being put together as of 10-1-2015, but here are some pictures that should give you a pretty clear idea of how the valve gets assembled. A kit may be available at some time in the future. Details are still being worked out.

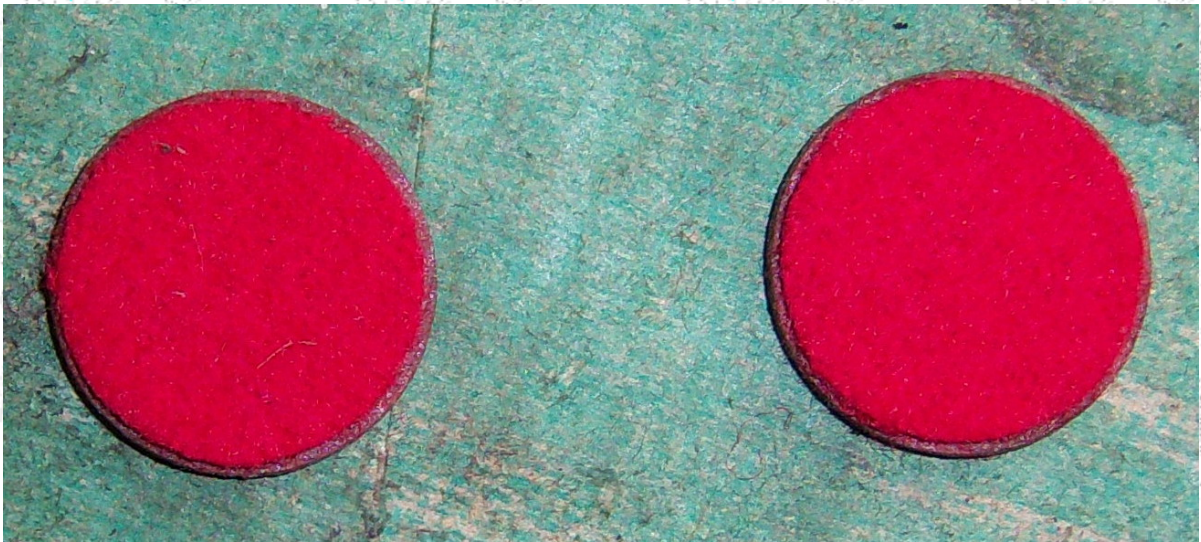


The new valve facings



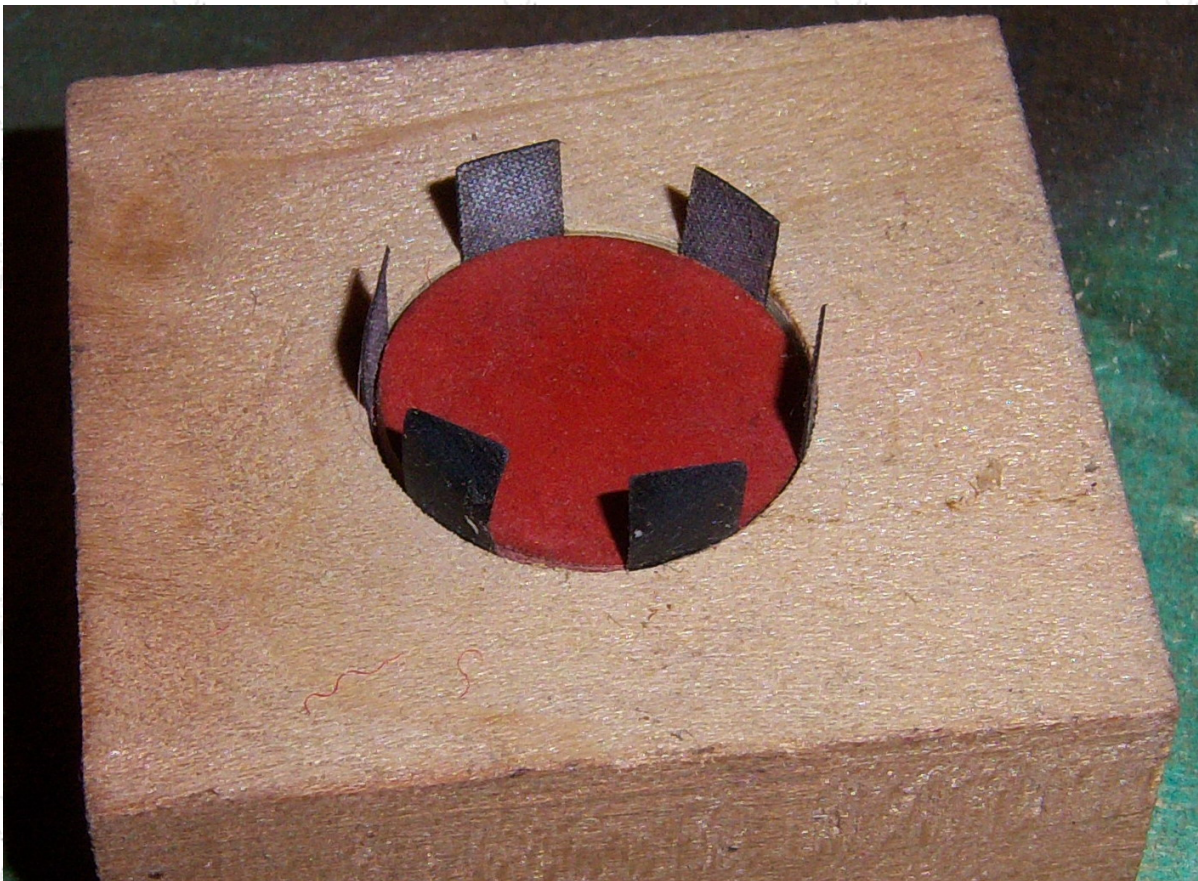


The assembly jig

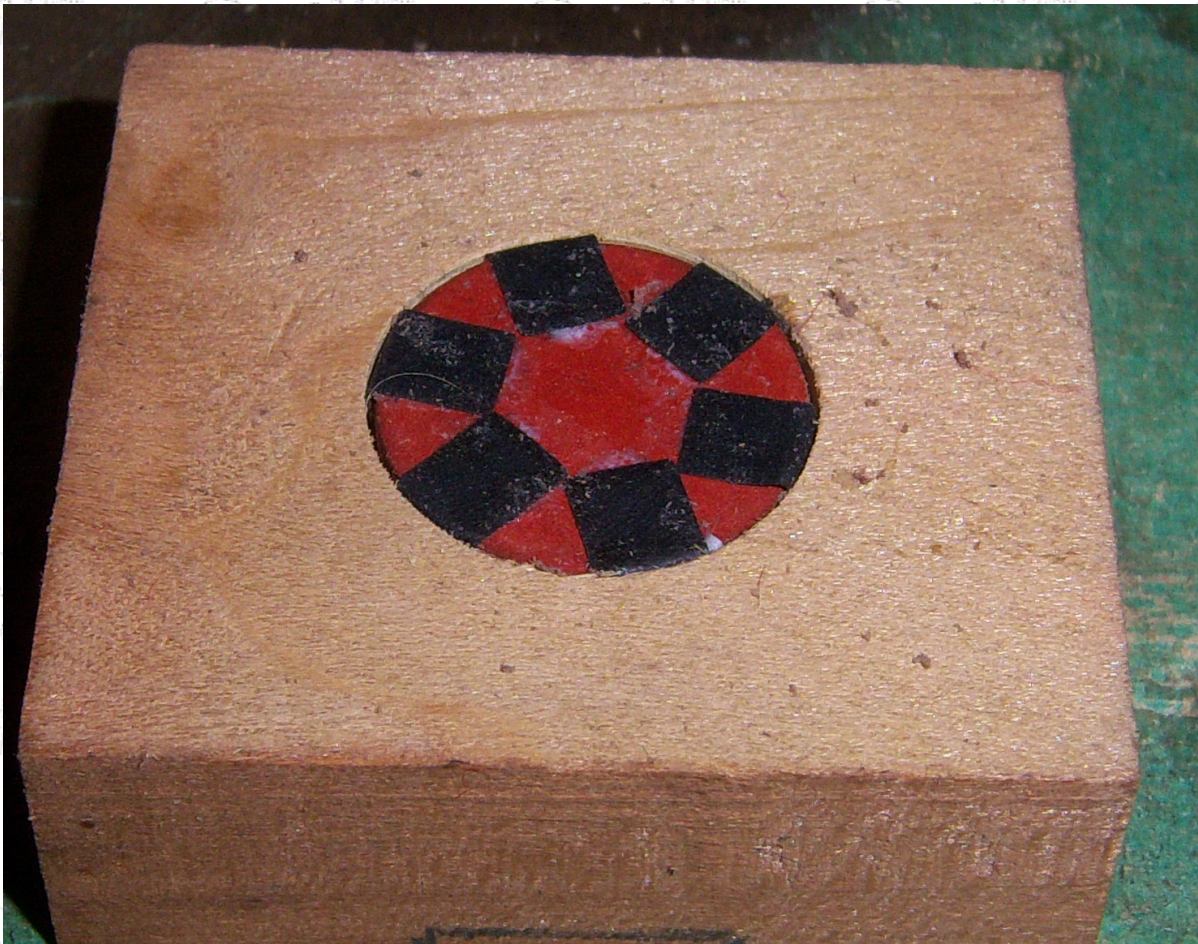


Gluing the felt to the hard disk



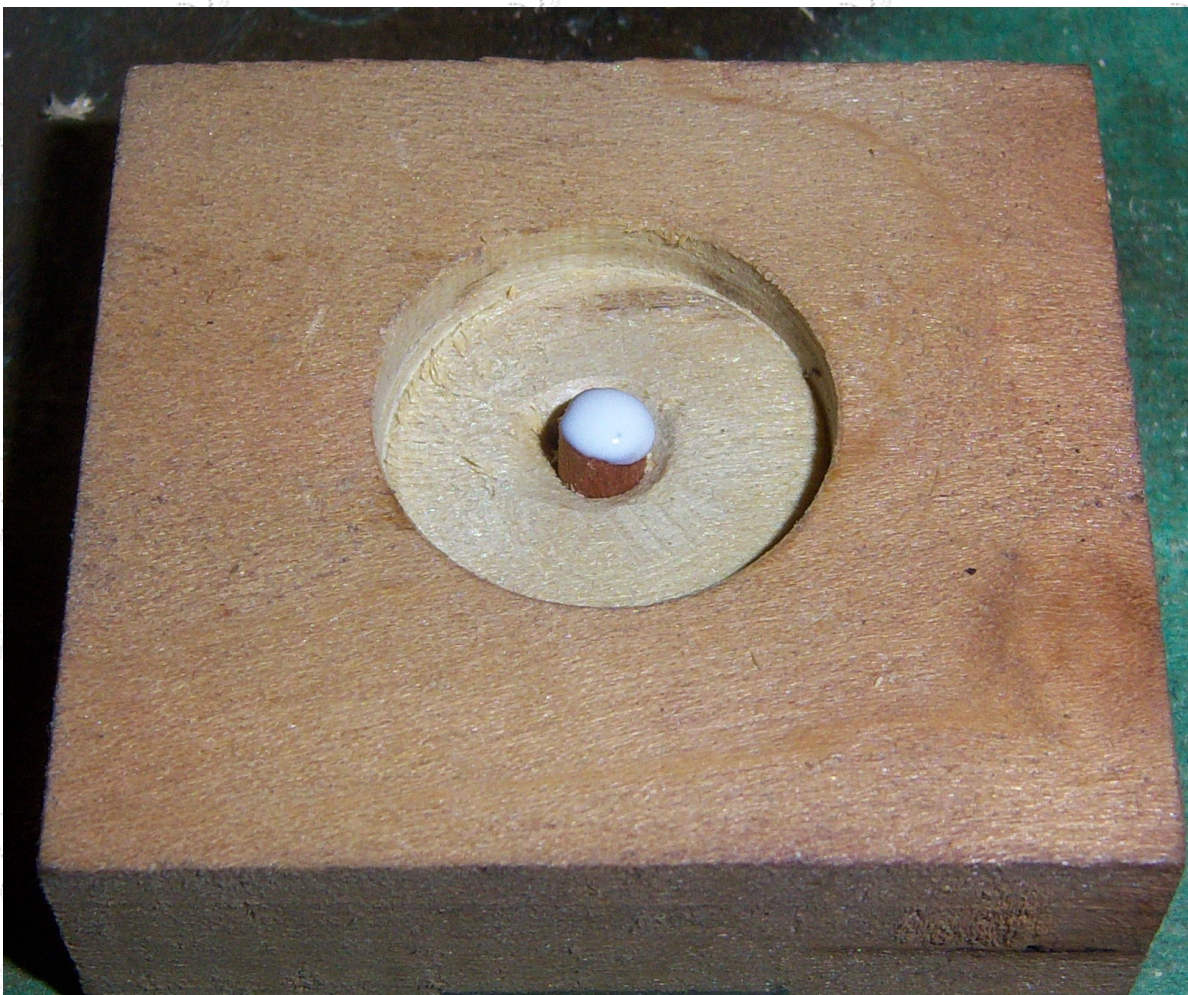


Placing the parts in the jig



Facing glued to hard disk



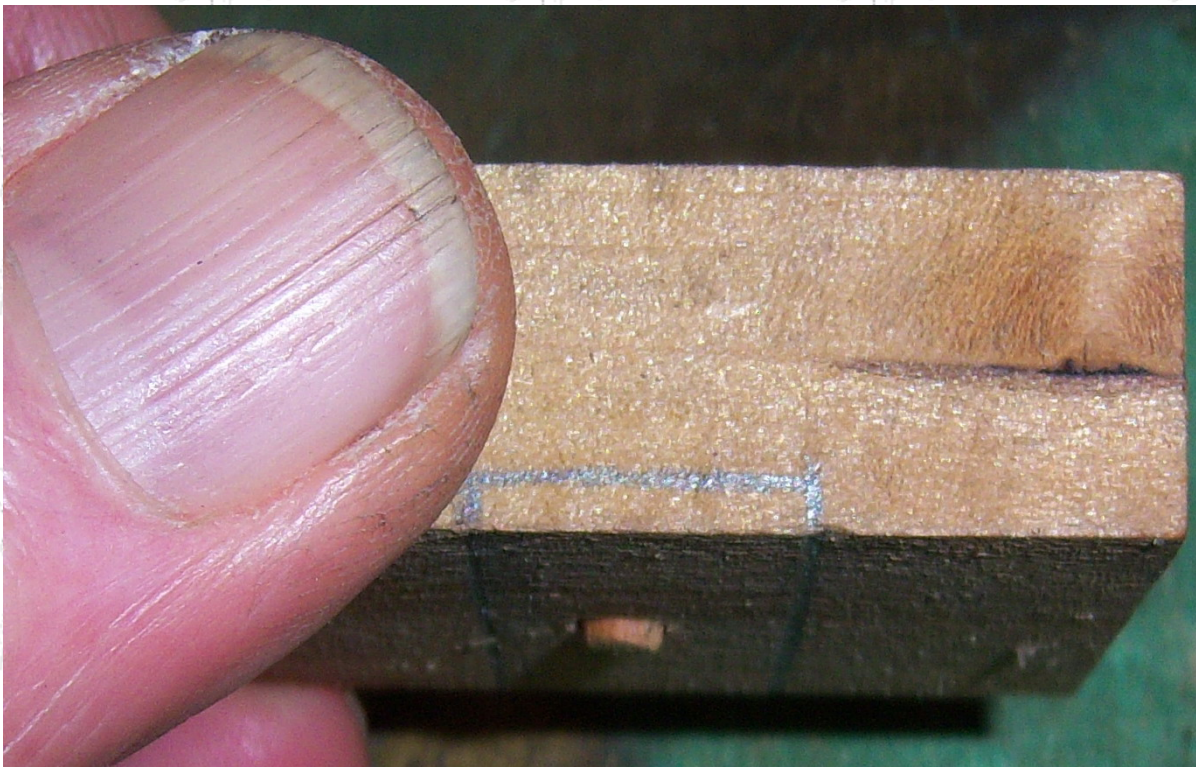


Applying glue to the stem

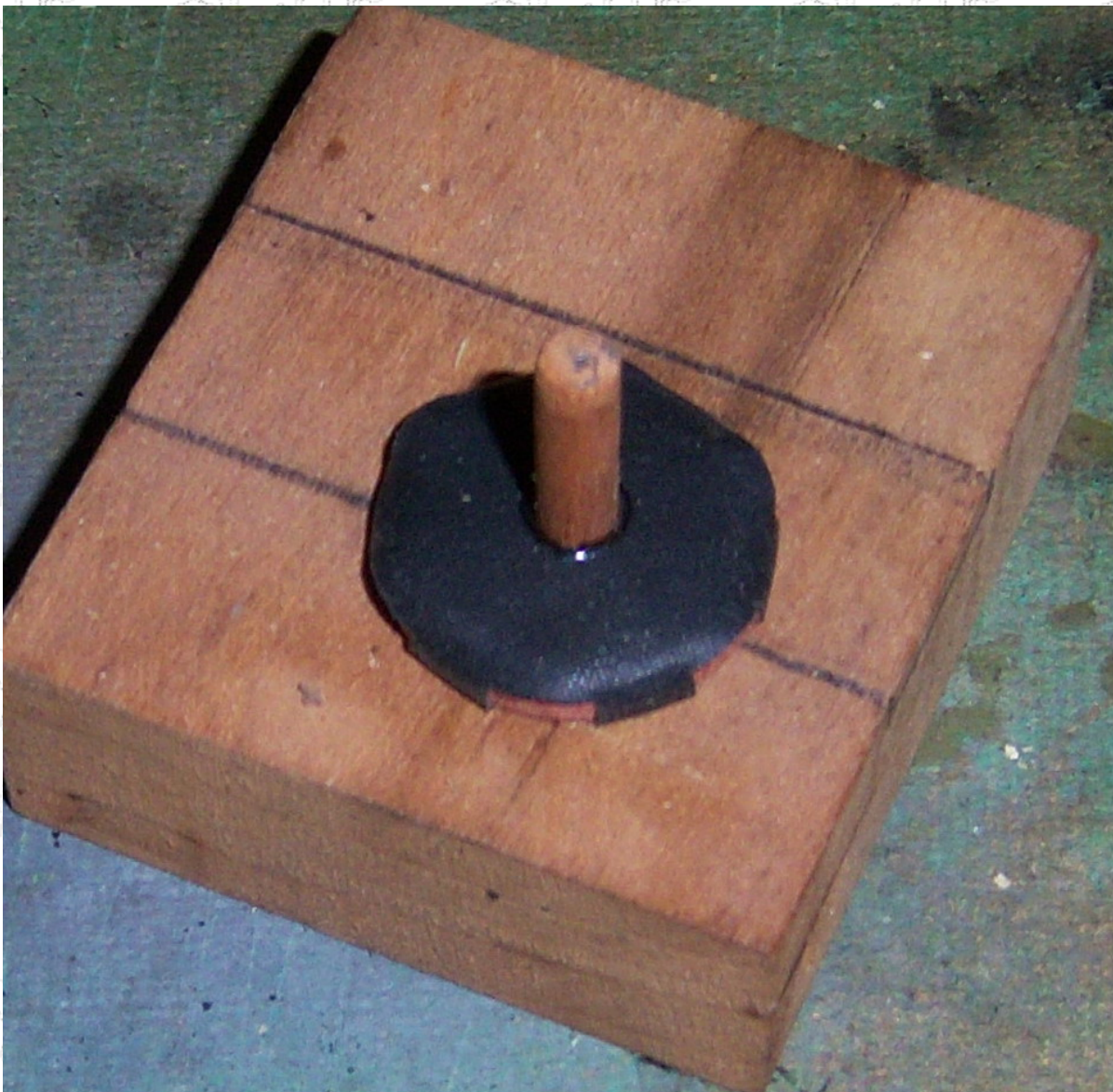


Spacing the valve from the top





Spacing the stem from the bottom



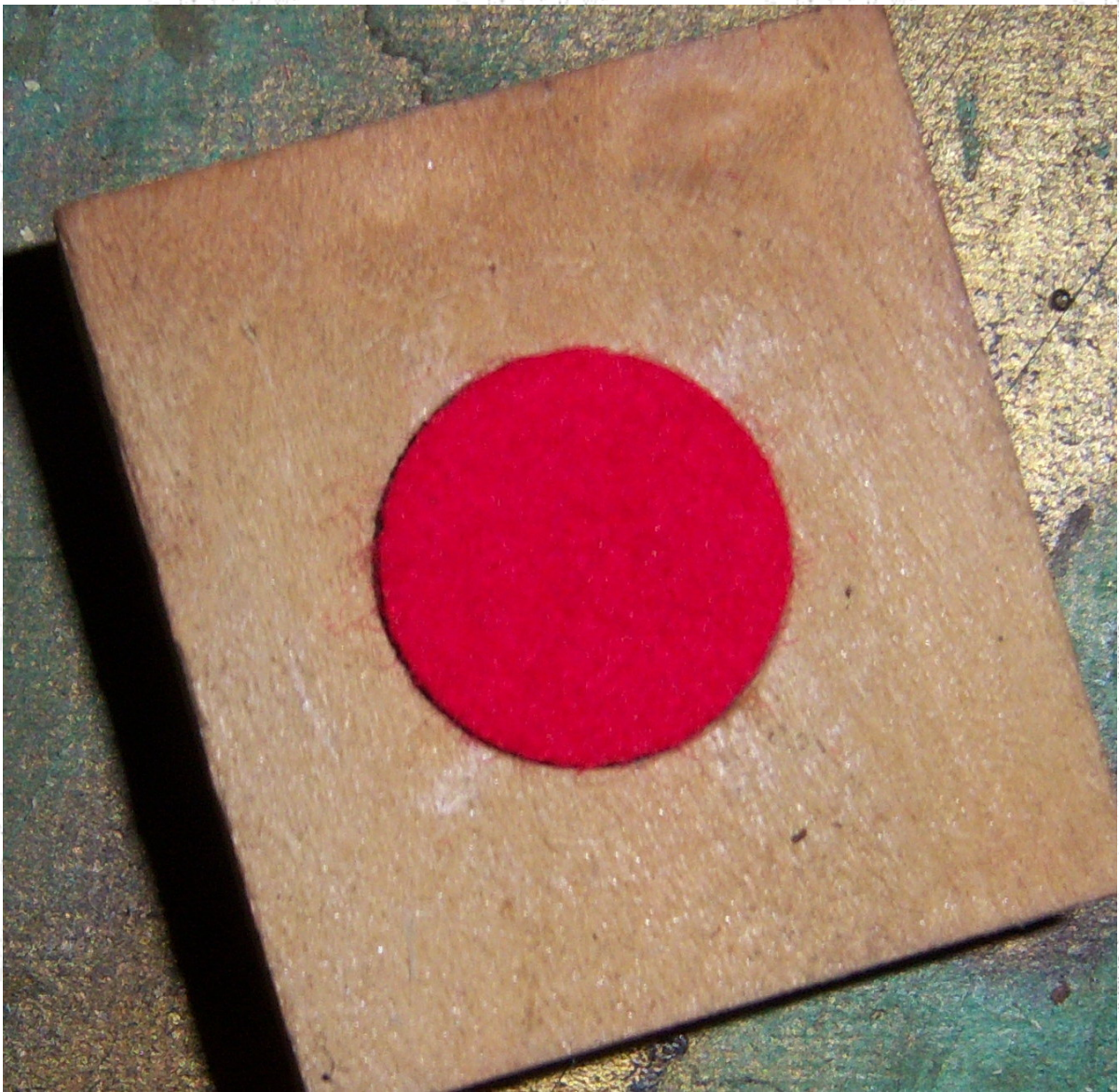


Intake side of valve completed



Applying glue for the exhaust facing felt





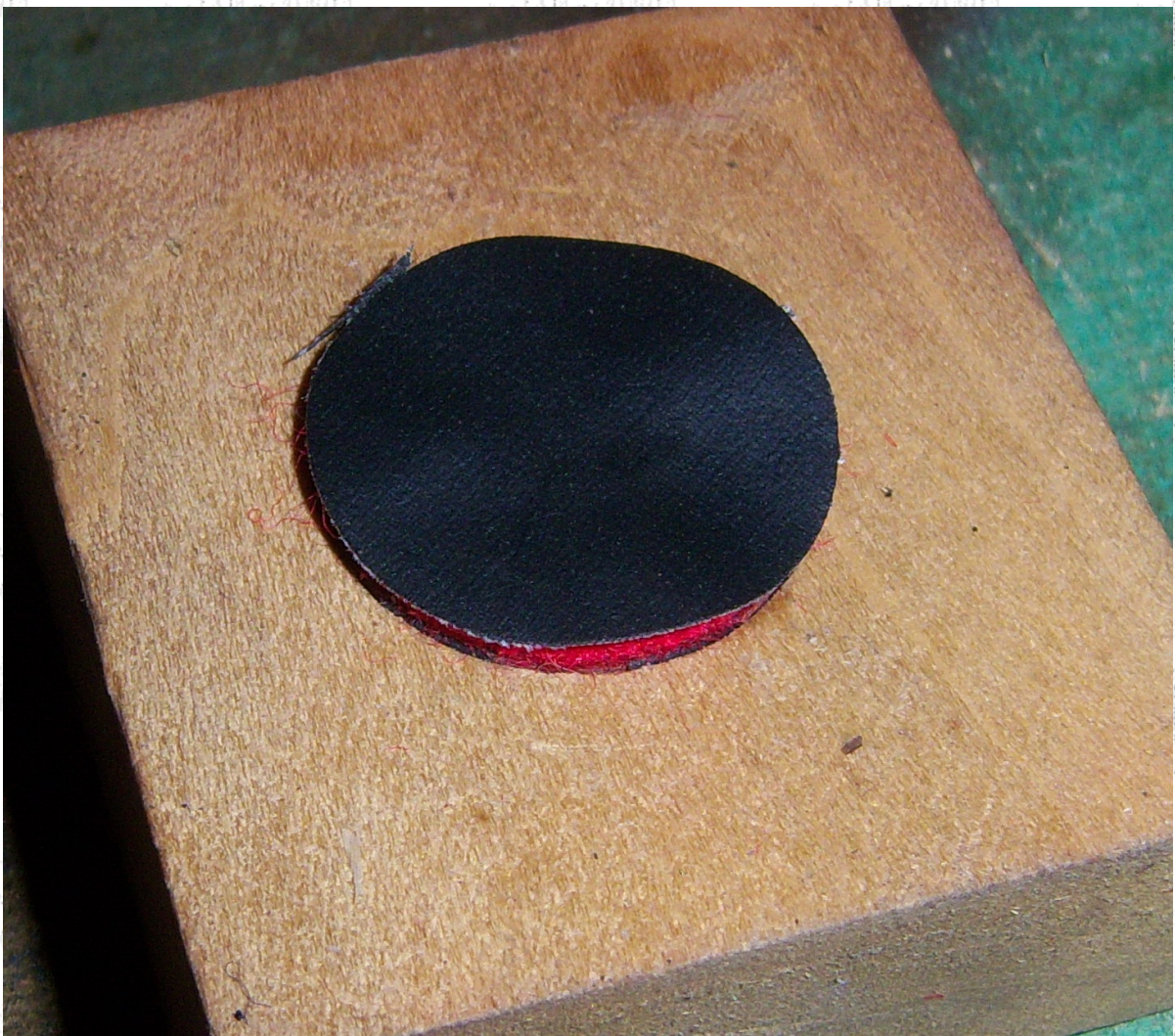
Placing the felt for the exhaust facing





Glue for exhaust facing





Placing the exhaust facing

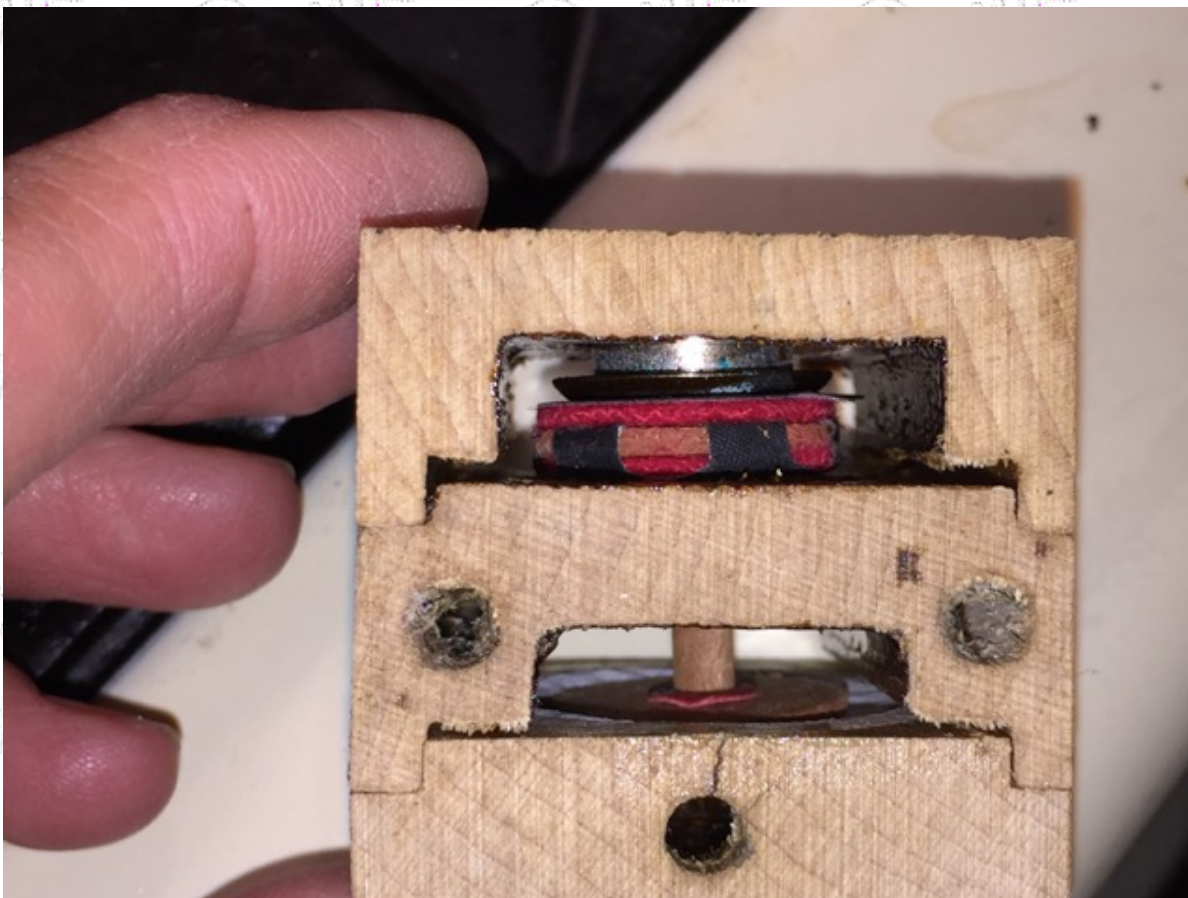




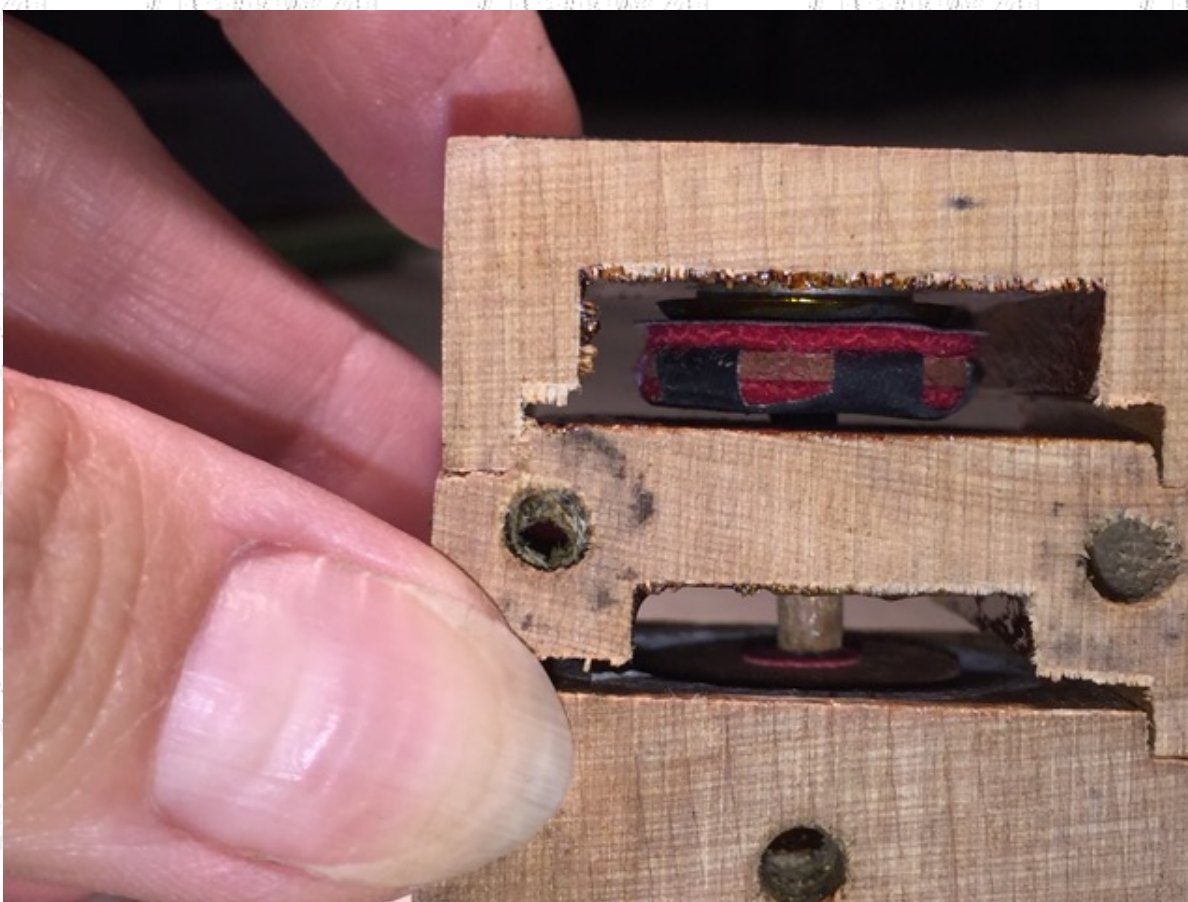
Completed Valve

In the photos of the first and third block, it looks like the upper valve seat slipped down during the dismantling process. Compare the position of the seats in 1 & 3 to the position of the seat in #2. Obviously a big difference. The seat in #2 looks to me to be in the correct (or normal) position, but the stem is so long that the valve isn't resting on the inside valve seat.

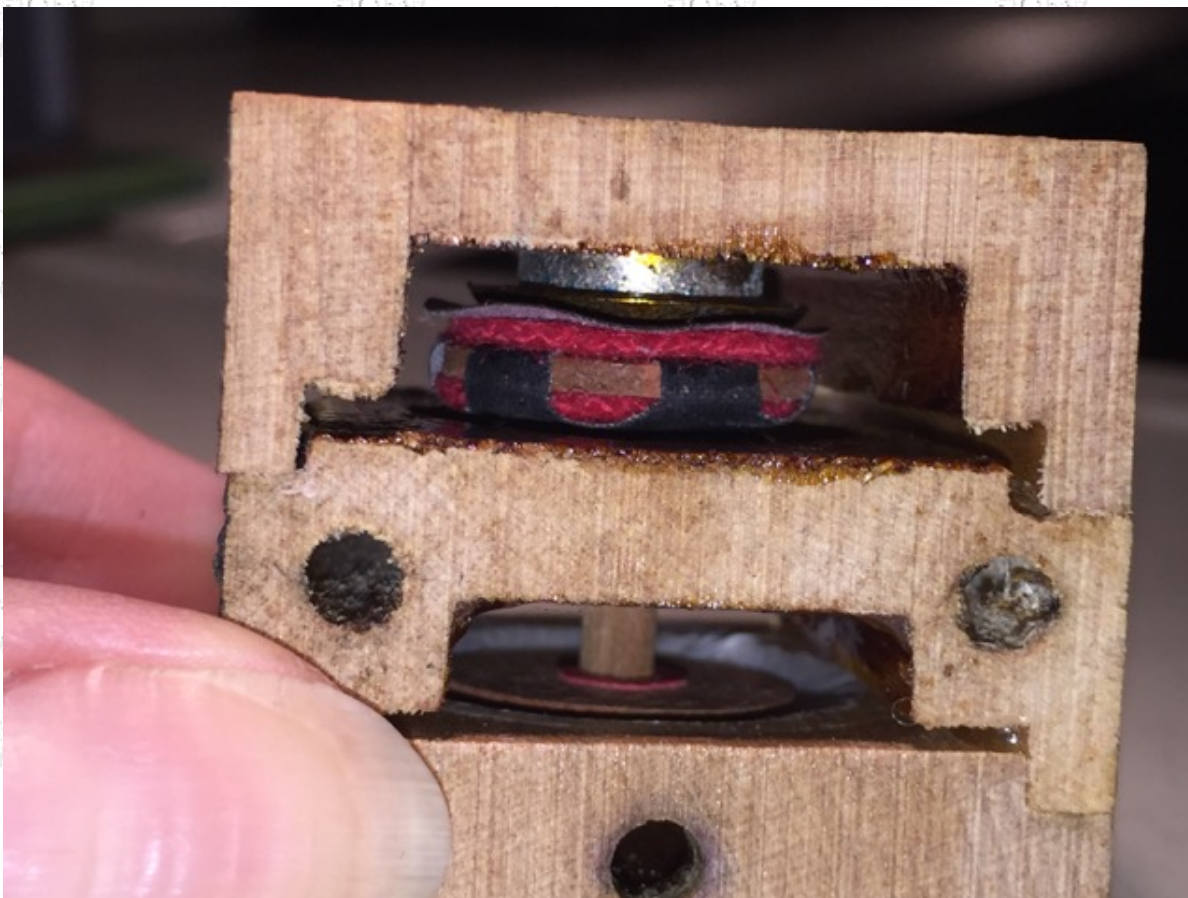




Valve Block #1



Valve Block #2



Valve Block #3

All valves **MUST** rest on the inside seat when at rest. This should be checked before the upper section of the block is glued in place. To insure that the stem is not too long, I look for a tiny (0.010") air gap between the bottom of the stem and the lifter disk. If there is too much of a gap, you can glue a tiny circle of tan pneumatic leather to the bottom of the stem.

Regarding the position of the upper valve seat, I use a 0.030" thick paper disk. I put the disk on top of the valve and then put the upper section of the block in place. Then I look to see if the upper section of the block is resting where it will be glued to the block. If it looks like the upper section is lifting, I move the upper seat upwards. This can be a little challenging. I use a very small hammer to 'tap' the seat upwards. Then test again until it's right.

(I also use a standard .030" metal feeler gauge to test the valve clearance. If I feel any resistance as I slide the gauge between the seal and the valve, I move the seat. If it's 'sloppy' [too much clearance], I move the seat.)

Moving the seat 'down' (to reduce the clearance) can be a bit harder than moving it up because there's really nothing to 'bang on' (from the top). So, I use a screwdriver and gently pry the seat down from the inside, being careful to keep the seat parallel with the top of the block.

After the seat is in the correct place, you'll need to seal around the top edge of the seat with shellac. Do this before gluing the section in place.

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