

Terms & Conditions



LOSS OR DAMAGE

We do not consider a shipment lost until 21 days after shipping date. If there is more than one package, this will be indicated on the original order blank which is always included in one of the boxes, if there is more than one. We try to include everything in one box to save postage, but this is not always possible, and an additional box may be separated in transit, so have patience. In winter months, water soluble glue is broken out of the other items and sent separately by Post Office by priority mail to prevent freezing damage; the UPS box may arrive first, so don't phone and say we left out the glue until you have checked the number of packages on the order blank.



MISTAKES

Mistakes will be made. If it is our fault and wrong items have been sent, or you have been shorted on a quantity, we will correct the mistake and credit return postage for wrong or defective items. On telephone orders we cannot take the responsibility for writing down wrong stock numbers.

If you wish to return something for credit, here are the terms: there will be a restocking charge. It must be a stock item and in resaleable condition, returned at your expense, and we do not accept responsibility for loss or damage in returning. It must be returned in 30 days. You must furnish the invoice number which it was shipped on.

RESTOCKING CHARGE

Total below \$25.00 &	
All music rolls and books	33%
Other items, up to \$50	20%
Other items, up to \$100	15%
Other items, over \$100	10%

On items returned that were either shipped more than 30 days, but less than one year ago, or do not refer to invoice number, only half the current price will be credited or refunded.

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PACKAGE DEALS

BEGINNERS OUTFIT

'Just send me something to get me started' is a frequent call. So we compiled a list of basic items so that restoration may begin; while in the process, a list of secondary and more specialized items can be ordered.

More material will be needed. But to the inexperienced first-timer, these other things are not yet evident until dismantling the components. Just so you won't feel so impatient, once the parts are strewn out over the kitchen table, the Beginners Kit will keep you going while you are waiting on other items to arrive. It is also suggested that at the same time you order a copy of the "how-to-do-it book"—PLAYER PIANO SERVICING and REBUILDING (in paperback no. B-186 for \$29.95) This book will be your guide as you dismantle and plan your approach.

ITEMIZED LIST

No. 3	5/32" I.D. tubing	200 ft.
No. 50	thin pneumatic cloth	1-1/3 yd.
No. 52	medium bellows cloth	1/3 yd.
No. 55	heavy bellows cloth	2/3 yd.
No. 164	flap valve leather	7"x12" pc.
No. 303	"hot glue" crystals	1 lb.
No. 321	pkg. of powdered graphite	1.
No. 476	pneumatic covering jig	1.
No. 826	88 note test roll	1.
No. 346	3/8" Dia. plastic nuts	100.
No. 1171	5/32" O.D. straight nipples	10.
No. 5	3/16" I.D. tubing	10'.
No. 1710	Perma-gum	1.
No. 471	knife, for cleaning	1.
No. 305	small glue brushes	1 dz.
No. 477	3" wide jiffi spring clamps	6.
No. 171	Tite-bond resin glue, 8 oz.	1.
No. 408	gasket strip, 9"x36"x1/16"	1.
No. 472	tracker bar tube puller	1.

All of the above items

No. 1000 BEGINNERS KIT \$224.47

Many questions may be answered and disaster avoided by first reading appropriate chapters in the "how-to-do-it" Book: *Player Piano Servicing and Rebuilding* by Art Reblitz. This is 216 pages covering every phase of the restoration.

B-186. \$29.95

PACKAGE OF PIANO SUPPLIES

This will take care of the piano, in the same manner as the No. 1000 kit does for the player action.

Itemized list of No. 2000 kit

Stock #	DESCRIPTION	PRICE
No. 869	red nameboard felt	.83
No. 435	front rail punchings for keyboard. 3/16" thick	12.35
No. 436	center rail punchings for keyboard	8.50
No. 437	backrail felt for keybed 3/16" thick, 1 1/2"x32"	9.95
No.1236	paper shims for under no. 436 felts, to level keys	.95
No.1235	paper shims for under no. 435 felts to bring key-dip to approx. 3/8"	.95
No. 898	bridle straps with cork which plugs into hole old strap goes through	16.80
No. 331	plastic one-pc (w/front) key tops, set of 52	27.00
No. 439	black lacquer to spray sharps, pres. spray cn.	6.50
No. 313	contact cement to glue no. 331 key tops	8.95
No. 852	rubber head tacks, 3/8" round dome, 10	1.00
No. 74	hammer shank repair sleeves, 10	1.80
No.1334	jack springs, 1 doz.	.96
No.1437	regulating tool to turn eye screw above jack, which is always badly out of adjustment due to wear	4.00
All of the above items		99.52
No. 2000 PIANO SUPPLIES KIT		

Itemized List of TUNING KIT No. 2700

STOCK #	DESCRIPTION	Qty.	PRICE
No. 482	tuning hammer	1	22.50
No. 1100	tuning fork	1	10.85
No. 1101	mute wedges	2 ea	1.07
No. 1102	split end mute	1	4.95
No. 1103	temperament felt str	1	3.95
No. B-54	"Piano Serv., Tuning" BOOK by Art Reblitz	1	29.95
No. 2700	items above		74.34

LEATHER

ZEPHIR SKIN - A tough feather-weight membrane made from animal intestine. Used for pouches. Almost airtight. Approx. size: 8" x 25"

NO. 60 PER SKIN . . . \$49.00

TAN POUCH LEATHER - Top grade split from imported lamb skin, thickness from .012" to .013" This is the same leather that was generally used for pouches in most player actions. Full skin is approx. 6 sq. ft.

NO. 116, HALF-SKIN . . . \$125.00

NO. 61 FULL SKIN . . . \$250.00

See Page 11 for pouch drawings

FLAP VALVE LEATHER - .065" to .085" thick with hard finish one side and fine smooth valve surface on the other. For inside and outside pedal pump flaps.

NO. 64 PER SQ. FT. (7" WIDE) \$9.90

NO. 164 PER PC. 7"x12" . . . \$5.88

CALF SKIN (Approx .025" thick) Polished smooth grain side; flesh side smooth and firm suede.

NO. 62 PER SQUARE FT. . . \$10.50

KID SKIN - The most perfect leather for valves. Various colors. About 4 sq. ft. per skin. SOLD ONLY BY FULL SKIN

NO. 63 .040" thick \$42.00

NO. 1063 .050" thick 42.00

CABRETTE - Soft white, .020" thick. For valves.

NO. 67 PER SQUARE FT. . . \$29.35

MANDOLIN STRIP - 3" x 48" strip of leather for mandolin rail.

NO. 68 . . . \$9.88

GASKET MATERIAL

ALSO SEE Die-Cut Gaskets on page 10

SOFT BLACK RUBBER SHEETING 1/32" thk, 12" wide, per running ft.

No. 736 . . . per ft. . . \$3.00

1/16" thk., per sq. ft. price (12"x12")

No. 737 . . . ea. . . \$2.50

1/8" thk. strip 4" x 54".

No. 738 . . . ea. . . DISCONTINUED

CORK SHEET. Pure fine-grind dense cork. 28" x 50" x 1/16"

NO. 1761 . . . EA \$10.00

CLOSED-CELL SPONGE NEOPRENE. Softer than leather, completely airtight. Uniform thickness. The latest thing for vertical valve replacements. Just re-glue valve stem to new combination valve made with two punchings of sponge neoprene, separated by fibre or metal valve base disc. No. 320 glue is recommended.

NO. 751, 1/16"x12", PER FT. \$1.75

NO. 752 1/8"x12", PER FT. \$2.50

GASKET PACKING LEATHER - Soft suede both sides. Approx. .040" thick, skin size about 24" x 48". SOLD ONLY BY FULL SKIN.

NO. 400 . . . \$30.00

ARTIFICIAL LEATHER (Vinyl Sponge)

Soft as human skin. 100% airtight. Skin surface with sponge cells below. Backed with cloth for easy gluing. No. 320 glue recommended

.058" thick. Brown
NO. 739 Per sq. ft. . . \$5.00

CORK-RUBBER GASKET MATERIAL, 1/16" thick. Sizes listed below.

NO. 401, 4" x 36" . . . \$3.66

NO. 398, 4" x 54" . . . \$5.60

NO. 408, 6" x 36" . . . \$8.47

NO. 397, 8" x 60" . . . \$17.48

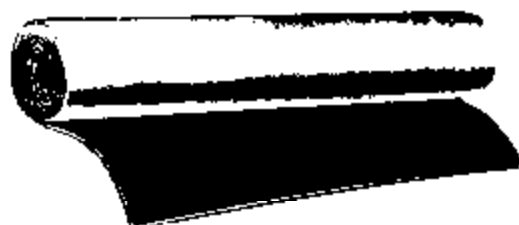
TUBING

PRICES BELOW ARE FOR
MULTIPLES of 100 ft.

STOCK No.	COLOR	I.D.	WALL THICKNESS	PRICE PER FT. 1-10 ft.	PRICE PER FT. 11-99 ft.	PRICE PER FT. 100-400 ft.	PRICE PER FT. 500 ft. - up
No. 22	grey	9/64"	1/32"	.22	.20	.17	.15
No. 3 No. 23	black grey	5/32"	5/128"	.16	.14	.11	.09
No. 20	black	5/32"	1/32"	SOLD ONLY IN 100 ft. ROLLS		10.00 c'	8.00 c'
No. 4	black	11/64"	3/64"	.24	.22	.12	.11
No. 5 No. 25	black grey	3/16"	3/64"	.24	.22	.12	.11
No. 6	black	7/32"	3/64"	.25	.23	.21	.19
No. 8	black	1/4"	3/64"	.28	.26	.20	.18
No. 10	black	5/16"	1/16"	.40	.32	.25	.23
No. 11	black	3/8"	3/32"	.56	.51	.47	.42
No. 13	black	7/16"	1/16"	1.00	.90	.82	.77
No. 14	black	1/2"	3/32"	1.20	1.10	1.00	.90
No. 17	black	5/8"	1/8"	1.35	Sizes above are sold in full foot lengths, 1 to 99.		
No. 18	black	11/16"	1/8"	1.35	Larger sizes, starting with No. 17, may be ordered in half foot increments, any length.		
No. 19	black	3/4"	1/8"	1.35			
No. 205	grey	7/8"	5/32"	1.82			
No. 206	grey	1"	5/32"	2.00			
No. 207	grey	1-1/16"	5/32"	2.14			
No. 210	grey	1-1/4"	5/32"	2.39			
No. 211	grey	1-3/8"	3/16"	3.31	* * * The I.D. of all tubing is made slightly undersize to the size listed, so that it will be a snug fit. You do not need to order the next size smaller.		
No. 212	grey	1-1/2"	3/16"	3.31			

Black or grey is indicated for color pigmentation. Quality of rubber is identical.

BELLOWS CLOTH



ÆOLUS IS OUR TRADEMARK AND MEANS HIGHEST QUALITY NATURAL RUBBER

Price per running yard.

Also sold by fractions: 1/4, 1/3, 1/2, 2/3, 3/4 yards.

STOCK No.		1 to 3 yds.	4 to 9 yds.	10 to 19 yds
No. 50	Pneumatic cloth	20.46	16.41	14.41
No. 52	Motor cloth	32.79	29.52	26.57
No. 56	Reed Organ Bellows	28.57	25.71	22.25
No. 54	Light Bellows Cloth	39.00	35.50	32.50
No. 55	Heavy Bellows Cloth	45.00	40.00	37.00

SPECIFICATIONS for above **ÆOLUS** products

All natural rubber

Stock No.	Thickness	width	material	color	use
No. 50	.008"	55"	lawn cotton	dusted black	striking pneumatics
No. 52	.010"	55"	cotton/cotton	wine/black	ped. pneu., governor
No. 56	.025"	59"	twill cotton	black	melodeon, reed org.
No. 54	.040"	59"	drill cotton, fuzz back	rust/white	small pumps
No. 55	.048"	59"	drill cotton, fuzz back	rust/white	reservoir & pumps

LEAD TUBING FOR 5/32" TRACKER BAR
Pure lead tubing, .154" I.D. x .200" O.D. (3/16")



See page 104
for info on handling
and use after
opening

There are some tips in regards to removing the old lead from both the brass tracker bar nipple and the hole in the wood at the other end on page 75 & 87. This is sold only by the 200 ft. spool. Just the right amount for the average player, with a little left over.

See Stock No. 481, page 100 for info on handling and use after opening.

No. 21 . . . PER SPOOL • DISCONTINUED

The aging qualities of Natural Rubber will outlast any neoprene or synthetic. The wear qualities of Nylon will far outlast those of cotton. However, popular demand has apparently rejected the use of Nylon in bellows cloth because it can't be glued with "hot" glue. Therefore, the Nylon materials (Deltex & Bion) were discontinued, simply because use of the traditional material, rubber or cotton, prevailed.

If the cotton pneumatic cloth is never creased, but instead allowed to fold naturally by vacuum under a situation where the pneumatic is prevented from changing by .16", the wear life will be increased three times.

Most player manufacturers placed a felt bumper inside the pneumatic, but beaded the fold to prevent the lead crease. A few players did not do this, and the result was pin holes and slits on the folds after about ten years use.

It is true that once a pneumatic is removed and assembled back into the player action, there is usually a mechanical snap action, so the pneumatic can never completely close, however, without the internal felt bumper, the damage will have already been done; just handling the pneumatic to take it out and glue it to the desk will put this hard crease in the cloth. Then, rather than distribute the wear to a broad band, all the wear is concentrated in this narrow trough of the crease in all future folding action.

It is suggested that an ideal felt to solve the above problem is: No. 1685 felt dot No. 1685 1/8" thk. pkg. of 100 \$3.50

LUBRICANTS; PROTECTANTS

MINK OIL is made from 100% animal oils. 16-2/3% is pure mink oil, and basically beef tallow for the remainder, mixed with zinc stearate, which keeps leather pliable and prevents hardening.



Tanning of leather removes the natural oils. In the reprocessing of mink oil tanned leather, material will absorb 23 pounds of mink oil to the 100 pounds of raw leather. The animal oils will adhere to the leather fibres with lasting results. On the other hand, petroleum based products will eventually bleed off or evaporate away.

The shelf life of mink oil is indefinite; it will not dry out or deteriorate.

Mink oil does wonders for preserving and keeping leather and vinyl soft. It can be massaged in and in about ten minutes, excess wiped off. Mink oil will do everything that stock nos. 324 and 322 will do; is better, and costs less. Excellent for treating leather pouches and gaskets.

Rubber type synthetics should never be applied to pouch leather in any quantity; inconsequently, you may have been advised otherwise.

Consistency of mink oil looks like the same as canned car polish wax.

NO. 1704 3 1/2 oz. jar, ea. . . . \$3.10
 NO. 1705 7 oz. jar, ea. . . . \$5.10

- GRAPHITE. Finely powdered for slide valves. 1 oz. jar with applicator and instructions for professional method to make the dry graphite stick to wood surface. Nothing but dry lubricant should ever be used on pneumatic motor slide surface. Anything with oil or grease will soak into the wood and cause permanent damage, such as "stick" graphite which contains grease for a binder.
 NO. 321 \$1.20

- GUARDSMAN FURNITURE POLISH, 1 pt. For the best care of piano finish. Is wax free; contains no acids, solvents or silicones. No sticky or oily surface.
 NO. 1724 . . . \$7.15



- McLUBE. - 16 oz. spray can that leaves a coating like Teflon. Dry, so it cannot attract dust. Also protects metal parts from rust or corrosion, as well as the lubricating effect. Can be used instead of graphite on motor slide valves and reduces friction on crankshaft. Spraying threaded wires beforehand will make new leather nuts go on much easier. Kills tackyness on valve leather; also valve plates if coated, will release from the sealer.
 NO. 1700 \$17.00

- SIL-GLYDE - Comes in a tube, is thick like grease, and is made with Silicone, so it is harmless to rubber and not affected by temperature. Can be used on metal bearings and tracking cams. Also, can be used on gaskets; as they are tightened Sil-Glyde will fill in any low spots or porosity. 4 oz. tube.
 NO. 322 \$9.50



- GLOSS LACQUER in spray can. (11 1/2 oz.) Unlike acrylic or enamel, lacquer does melt into the previous spray coat, allowing a professional looking finish, thus you can spray many light coats and avoid running.
 NO. 463 Clear \$6.50
 NO. 439 Black \$6.50

TUBING CONNECTORS

SPECIALTY TUBING CONNECTORS

When pulling lead tubing, the hole left in the wood is usually 3/16". To run rubber tubing to the tracker bar, you will need a connector to anchor in this hole. There are two options: the 3/16" x 1/2" elbow, which is a 3/32" O.D. with a 3/16" sleeve at one end. The other, is to seat the hose into a 1/4" drill bit and drive in stock no. 351, 352 or 353. This reduces straight sleeve.

Stock No.	Size	Price ea.	10 or more
361	3/16" to 5/32" EL.	.298	.88
351	7/32" to 5/32" ST	.50	.40
352	1/4" to 5/32" ST.	.60	.55
353	5/32" to 3/32" ST. (tracker bar nipple)	1.00	.90

T CONNECTORS FOR 1-1/4" HOSE.

378	1 1/8" x 1 1/8" x 1 1/8"	3.78	
365	1 1/8" x 1 1/8" x 1"	2.00	
367	1 1/8" x 3/4" x 1 1/8"	6.50	
368	1 1/8" x 5/8" x 1"	6.50	
369	1 1/8" x 5/8" x 1 1/8"	6.50	

T - CONNECTORS

371	5/32"	.80	---
347	7/32"	2.25	1.80
364	1/4"	1.40	1.20
373	3/8"	1.00	.80
374	1/2"	4.30	---
375	5/8"	4.30	---
376	3/4"	5.00	---
377	1"	6.00	---

Y-CONNECTORS

350	5/32"	.80	.52
349	3/16"	1.04	.96
359	1/4"	2.25	
282	3/8"	1.13	
391	5/16"	1.72	

ELBOWS 90 degree

Stock No.	Size	Price ea.	10 or more
141	5/32"	.30	.24
142	3/16"	.57	.40
143	7/32"	.80	.68
144	1/4"	1.00	.80
145	5/16"	.90	.65
146	3/8"	1.00	.85
147	7/16"	1.10	.95
148	1/2"	3.99	3.40
149	5/8"	3.99	3.40
150	3/4"	3.99	3.40
151	7/8"	4.47	3.68
152	1"	5.24	4.27
153	1-1/16"	5.24	4.27
154	1-1/8"	5.24	4.27
155	1-1/4"	5.49	4.58
156	1-1/2"	5.56	4.63

STRAIGHT NIPPLES

Stock No.	Size & Length	Price ea.	10 or more
1171	5/32" (7/8")	.10	4.00
72	3/16" (1-3/8")	.17	15.00
73	7/32" (1-1/16")	.12	8.00
74	1/4" (1-1/16")	.18	15.00

STRAIGHT NIPPLES for LARGER HOSE

Stock No.	Size & Length	Price ea.	10 or more
75	5/16" (1-5/16")	.34	.25
76	3/8" (1-1/4")	.68	.50
78	1/2" (1-7/8")	.88	.70
80	5/8" (2")	.88	.70
82	3/4" (2")	1.00	.90
83	7/8" (2-1/2")	1.30	1.00
84	1" (2-1/2")	1.00	.80
85	1-1/8" (1-1/2")	.60	.35
87	1-1/4" (2-1/2")	.92	.74
89	1-1/2" (3")	1.08	.88

STRAIGHT FLANGED NIPPLES

Stock No.	Size	Price ea.	10 or more
95	5/16"		
96	3/8"	DISCONTINUED	
97	7/16"	DISCONTINUED	
101	7/8"	3.50	3.10
103	1-1/16"	2.79	2.35
104	1-1/8"	2.79	2.35
105	1-1/4"	2.79	2.35
107	1-1/2"	DISCONTINUED	
110	2"	3.50	3.10

FLANGED ELBOWS

Stock No.	Size	Price ea.	10 or more
121	3/4"	4.31	3.66
123	7/8"	4.31	3.66
124	1"	4.31	3.66
126	1-1/8"	4.31	3.66
127	1-1/4"	5.31	4.51

GASKETS for FLANGED FITTINGS ABOVE

For no. 101 thru 127 & no. 101 thru 105	
NO. 130	FA. 1-935¢
	FA. 10 or more27¢

GLUE



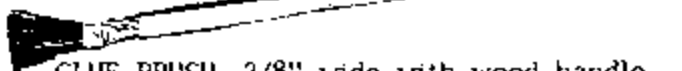
All glue listed below is water soluble and must be protected from freezing. These items are shipped by priority mail through the Post Office, or otherwise at our discretion, through the winter months. It is more costly in the transportation, but it is the only way that we as the shipper can guarantee that the glue arrives in useable condition. It would be a good idea to stock up before freezing weather in order to save on these extra shipping costs.

GROUND ANIMAL GLUE - A quality grade hide glue for use in hot glue pots. If you don't have a glue pot, put the glue crystals in a wide mouth jar and place in a pan of boiling water or inside a coffee percolator. To prepare glue: barely cover crystals with water; heat until dissolved. Add water occasionally to take care of evaporation.

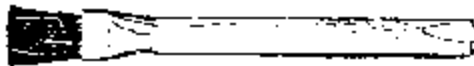
This is the same glue that was originally used for gluing everything on a player action. Still a good glue and certainly can't be easily dispensed with, especially for gluing small pneumatics back on the board, and gluing bellows cloth on the larger units. However, other more modern synthetic glues have their place, although the speed and sureness of "hot" glue setting up, it is hard to beat.

NO. 303	PER 1 LB. SACK	\$6.00
	PER 5 LB. SACK	\$25.00

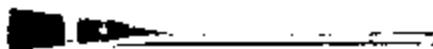
GLUE BRUSHES



GLUE BRUSH, 3/8" wide with wood handle 8" long.
NO. 31575



GLUE BRUSH, 3/4" wide with wood handle 5" long.
NO. 304 \$1.00



GLUE BRUSH, 3/8" wide with metal handle 5 1/2" long. cheap. throw-away
NO. 305 PER DOZEN PKG. F.A. \$1.41

PLASTIC GLUE. Dries clear and remains plastic. Contains 60% solids. Cannot be loosened with water after drying. Especially recommended for sticking to non-porous surfaces. Also good for sealing metal valve plates that may be removed again.

NO. 320	(8 oz. squeeze bot.)	\$3.85
NO. 2320	(1 gallon)	\$24.00

PHENOSEAL LIQUID CAULK. 6 oz. squeeze bottle. A concentrated white opaque liquid for gluing plastic key tops, metal valve plates. Gluing down gaskets and felt strips. Stays soft after drying.

NO. 327 **DISCONTINUED**

TITEBOND glue. Aliphatic resin. 8 oz. squeeze bottle. This is the standard, fast setting woodworking glue, not suitable for gluing sectional valve blocks, such as Simplex or Amphion--for this application, use only no. 303 "hot" glue.

NO. 171 \$3.85

PHENOSEAL - For sealing wood. Dries clear and seals the smallest cracks or pin-hole porosity 100% with just one application. Can be brushed or poured and drained. It is strongly recommended that any internal wood surface which faces the vacuum channels in the player action be recoated with this. Phenoseal is slightly plastic and will stretch and contract with humidity conditions without cracking or pulling away, such as the original shellac or varnish sealers. Phenoseal will stick over the original sealer. It remains slightly tacky, so do not coat a surface that a valve will seat on.

NO. 326	(8 oz. squeeze bot.)	\$5.38
NO. 2326	(one quart)	\$17.25

GLUE



TWO-PART EPOXY KIT. Mix equal parts or 2-to-1 for hardness varying from stone-hard to soft. The ultimate glue for holding! Does not shrink, so no clamps are needed. Does not run (having consistency of Vaseline.) Sets up overnight. Amber color. This is for special jobs with wood or metal, particularly where there is a large space to fill in. Much better than "plastic wood" and it can be sanded like wood, but being non-porous, will not absorb stain.

2 oz. jars of both "A" & "B" components
 NO. 301 \$10.00

PLIOBOND - 1/2 pt. brush-top can. A CONTACT CEMENT. For use where other glues will not work. Use on metal, rubber, leather, nylon, and plastic piano keys.
 NO. 313 \$8.95



IVORY CEMENT - For gluing genuine piano key ivories when they come loose. This is opaque white. Immerse capped bottle in boiling water. This melts the contents. Apply to key while in liquid state. Sets up fast, as soon as it cools. Recap bottle and save for next job. 2 oz.
 NO. 316 \$3.95

PNEUMATIC HINGE. 1-1/4" cloth circle with pressure sensitive label coating. 100 per roll.

NO. 685 . . . \$4.85



POUCHES

LEATHER POUCH CIRCLES .012" THICK
Punched from stock no. 61 TAN POUCH LEATHER

stock no.	dia.	each	ea. 10-99	per 100
No. 807	1-1/8"	1.08	.89	74.00
No. 816	1-3/16"	1.18	.93	75.18
No. 808	1-1/4"	1.17	.98	80.89
No. 810	1-3/8"	1.84	1.07	87.69
No. 811	1-7/16"	1.89	1.10	99.09
No. 812	1-1/2"	2.06	1.21	94.62
No. 813	1-5/8"	2.05	1.28	100.80
No. 814	1-3/4"	2.10	1.89	130.20

Any valve which has a top ring seat that plugs over the top of the valve will can utilize this easy way to set uniform valve travel. The shim is placed over the new valve, then the cover washer is placed on top of this. A bead of No. 330 Plastic Glue is drawn around the edge of the valve seat. When it is dry, the shim is "fished" out, leaving the desired spacing. For example, if the replacement leather is thicker than the original, the glue makes up the difference by allowing the top seat to stand away more than if it were replaced without the benefit of the standard .007" spacing.



This will work on the following makes of valves: Anson, Culbransen, Simplex and Wurlitzer. (See pg. 100.)

No. 2402 7/8" dia. x .036" \$2.25

PERMA-GUM - This is a handy item to have around the shop. How many times have you wanted to seal something temporarily and fussed around with masking tape? Perma-Gum is similar to modeling clay. It can be separated into smaller balls and back together as many times as you wish. Slap it over the open nipples of a pump to test tightness. Many uses. Helps keep your hands free for more important things. Packaged in 1/2 pound lumps.



NO. 1710 \$4.15

DISPOSABLE POLY GLOVES. 5 pr. per pkg. Easier than trying to wash off paint, glue, epoxy, etc. from your hands. Keep a few on hand for when piano restoration will occasionally turn dirty.

NO. 526 pkg. \$1.00

PNEUMATIC COVERING JIGS

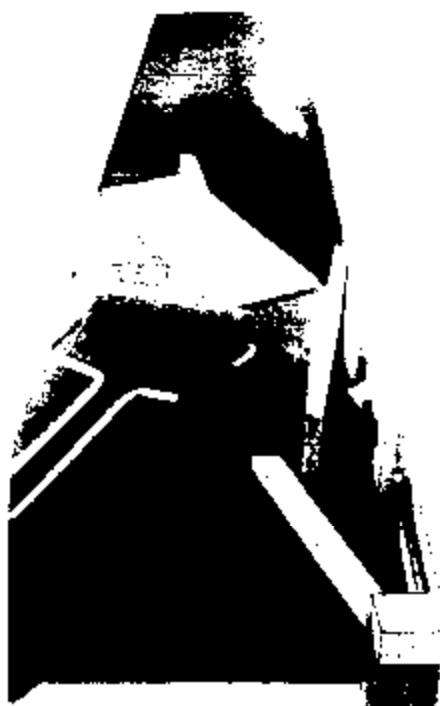
PNEUMATIC COVERING JIGS

There may look a lot of expensive jigs for a man with some experience. The direct method is the simplest and the most efficient. It is the only one that will do a job. If you have a jig that is not a factory product, you can make it. If you object to using cold glue, then you want the No. 476, which is designed to use any kind of glue. For one with no previous experience or skill at spreading glue evenly on the thin edge of a pneumatic board, the No. 170 jig certainly is a method that's foolproof.

ROLLER METHOD Includes everything needed for one set of pneumatics.
NO. 170 Pneumatic jig kit \$58.00

List of contents - No. 170

STOCK NO.	QTY.	DESCRIPTION	PRICE
No. 171	8oz.	Titebond glue	\$3.85
No. 174	1	Roller & handle	1.85
No. 175	4	Extra rollers	2.62
No. 176	1	Pressing block	2.52
No. 320	8oz.	Plastic glue	3.85
No. 50	1/2yd.	Pneumatic cloth	30.69
		Basic jig	(20.17)
NO. 170		TOTAL	\$65.35

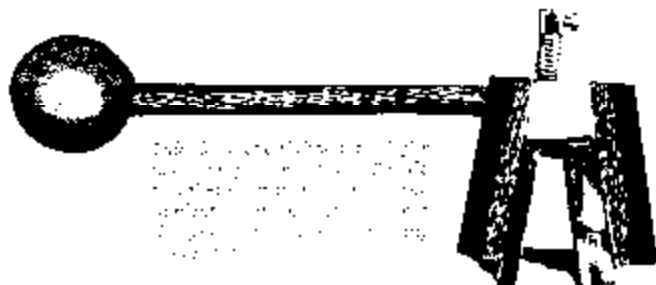


T-SQUARE METHOD PNEUMATIC CVR. JIG
 After cloth strips are torn and laid in a neat pile, this jig is placed on top. Pneumatic feet are glued and are swung into place so they are squared and will have identical spacing. (Adjustable from 5/8" to 1-3/8") As your palm presses down on the hinge end, extra strips of cloth underneath act as a cushion to overcome the beveling effect of the spread pneumatic sticks. Jig simply slips out and is only needed for this first operation.

NO. 476 \$25.00

SCHULZ POUCH-PNEUMATIC covering jig. After insertion, neither pneumatic boards or cloth is touched with fingers until ejected from the jig. This is accomplished by twisting the internal wedge 90 degrees. It then, only requires hinge lap-over and banding. A clamp is provided with jig to pull material tight while drying a few seconds before coming out of jig. This assures a perfect recovering job; uniform and straight, with no loops on corners.

NO. 1670 \$44.50

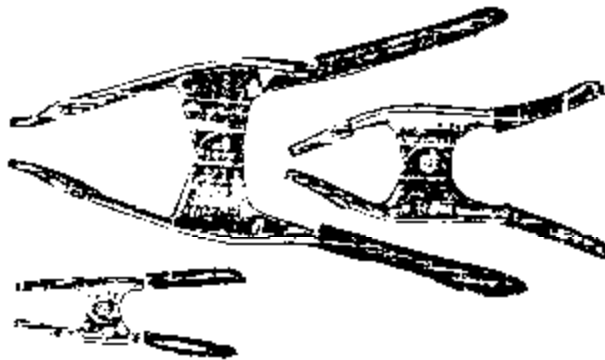


TOOLS

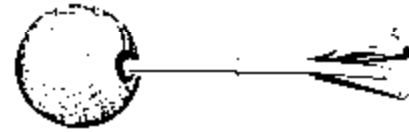


VALVE GAPPING TOOL. Sets valve travel at maximum efficiency .035" May be inserted and withdrawn through 7/16" or larger diameter.

NO. 1474 \$5.50

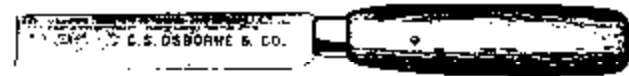


JIFFI SPRING CLAMPS			6 or more
stock no.	opening	each	price ea.
No. 481	1"	1.00	.70
No. 484	2"	1.50	1.05
No. 477	3"	7.50	-----



LEATHER NUT INSTALLER. Tapered for all sizes. Round hardwood "grabber" is easy on the palm.

NO. 1394 \$20.00



FELT KNIFE. If you need to be convinced that you need this handy knife, you should see them - laying all over the place at Player Piano Co! They are the most reached for tool; used for just about everything a knife can be used for, and occasionally to cut felt. This tool is more indispensable than a screwdriver (they have been used for a screwdriver when one can't be found).

NO. 471 \$6.50

-Also for cutting tool, see scalpel on page 103-

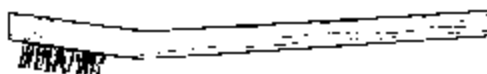


PARING TOOL. 7" long, with insert for Schick razor blade in curved tip, which allows cutting from center outwards, depending upon pressure. USES: for skiving leather, to splice, feathering edges of two pieces to be joined by contact cement, tapering the two opposing surfaces to maintain the same thickness throughout overlap. Paring off felt on tip of piano hammers to level off string grooves (much faster than sanding). Remove lacquer surface on flap valves for gluing on wooden spring stick. For shaving off ragged or unevenly trimmed pneumatic cloth missed by scissors. For beveling edges of new cardboard ribs placed inside pump bellows; feathering corner patches. For scalloping out hinge end of new pneumatic boards or removing sharp edges of glue on old. For trimming paper on piano rolls next to core. For cleaning old glue or burrs on wooden valve stems. For trimming glue line of new sharps on key coverings. For trimming bushing cloth at end of hole after cutting new cloth. For skimming off mounds on gasket material around screwholes so gaskets can be pulled tighter with screws. Also handy for sharpening pencils, trimming moustaches, etc.

NO. 498 \$7.80

TRACKER BAR TUBE PULLER. Pulls old or new tubing from nipples or can be used to assist in cleaning them. For 5/32" nipples.

NO. 472 \$5.00

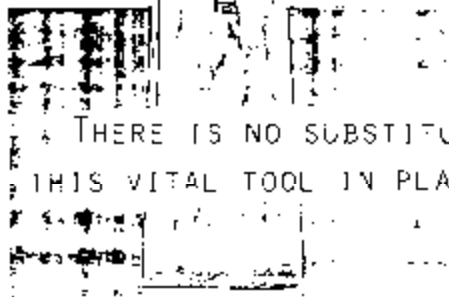
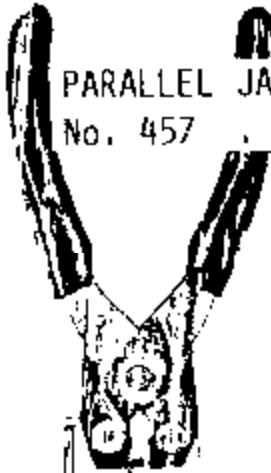


BRASS WIRE BRUSH. .008" bristles. 8" handle. Useful for certain places when using varnish remover, cleaning organ reeds or teeth in gears.

NO. 308 \$2.25

TOOLS

PARALLEL JAW PLIERS, 6"
No. 457 , DISCONTINUED



THERE IS NO SUBSTITUTE FOR
THIS VITAL TOOL IN PLAYER WORK.

1. For removing pneumatic fingers, as mentioned on p.54, "Player Piano Serv. & Repair." (Be sure to remove bead of glue on sides of finger, so pliers can go all the way to pneumatic board. With a firm grip and downward pressure, the finger will snap off without splintering.)

2. For removing force-fit collars on wire valve stems. Threaded end is clamped in vise (jaws lined with wood to prevent thread damage.) The thin edge of retaining collar is grasped and spun with alternate wrist action as you pull inward you. Other types of pliers will slip off the edge because of the tapered or uneven slant of jaws.

3. To remove the spline in disassembling some spool box transmissions. This piece is like a small staple pushed into two holes in the shaft, which allows the pinion to shift sideways and still retain its drive engagement.

4. For pulling straight nipples out of wood. (up to 1/2") Parallel action jaws have equal bearing on entire length of nipple and will not dent or flatten.

5. For straightening flange of metal valve plates.

6. For removing old rotten leather nuts from threaded wire. When nose of pliers are against thread, the compression of jaws will bite leather into both halves fall away from thread. Turns an hour job into a ten minute job.

7. When corner of single edge razor blade gets dull, a small sliver on side can be snapped off, restoring sharpness. Economize on prolonged use of blades.

8. For inserting or making pneumatic hinge springs from piano wire. First, right angle is bent. Then shift jaws 90 degrees to grasp foot of spring at vertex edge of jaws for perfect control of a sharp right angle bend. Also for pulling flap valve springs and staples, or reinserting.

9. After pneumatic boards are rehinged, but before cloth covering begins, the hinge can receive a hard crease by simply compacting the boards between the parallel action jaws.

10. When a piano key sets up too high and you can't get it down by pounding center of wood key to compact felt, try retrieving the center rail felt punching and squeeze it between the parallel jaws. Guaranteed to permanently compress it uniformly flat.

11. For getting the last drop out of a tube of "Super Blue".

12. When the head of a slotted wood screw breaks into, this tool grips the remaining half and the broken screw head can easily be turned out.

13. For tightening or removing Amphion valve block clamp posts.

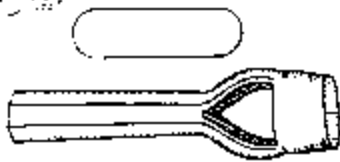
14. For tightening or loosening hex head nuts when you don't have the right size wrench handy. Won't chew up edge of nut.

15. For removing curved connecting wires between pneumatic flanges of stack pneumatics and flanged push levers on many actions that do not use threaded puppet wires. Avoid the danger of breaking out the narrow section of wood around bushing cloth. Since parallel jaw pliers grip the crook of the wire firmly enough that you aren't prying against the fragile wooden piece, it can also handle situations where the wire does not slip out freely, due to rust or a humidity swollen bushing hole.

16. For changing angle of tracking cams.

17. Installing "O" ring end taps on rolls: If you will come immediately behind the straight side of the hook and mash the dampened bookcloth between the jaws of parallel pliers, you will get a positive bond all the way to the hook.

PUNCHES



OBLONG PUNCH
Punches slot 7/8" wide x 1/4"
NO. 230 \$58.89

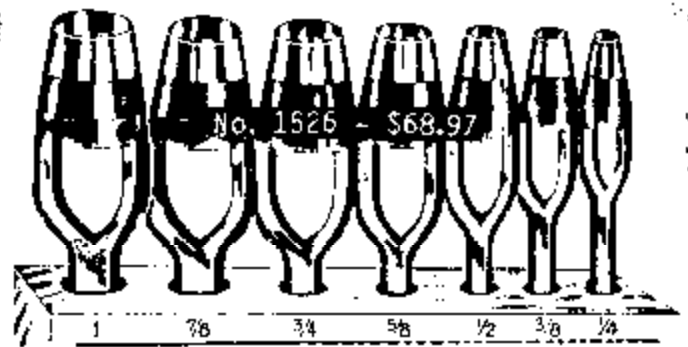
TUBE PUNCHES
stock no. size price ea.

NO. 181	1/16"	\$6.33
NO. 184	1/8"	\$6.72
NO. 185	9/64"	\$6.72
NO. 186	5/32"	\$6.72
NO. 189	13/64"	\$7.50
NO. 191	1/4"	\$7.50
NO. 194	5/16"	DISCONTINUED

MINI-PUNCH SET, 7-pc.
A handle and punch tip screws together. This is a much better way to build a punch than the straight tube punches above. Since the screw side of the Mini-Punch is bored larger than the cutting tip, the punchings do not plug up in this end, but instead are pushed easily through. Six sizes: 5/64", 3/32", 7/64", 1/8", 5/32", and 3/16"
NO. 1478 . . . \$24.81

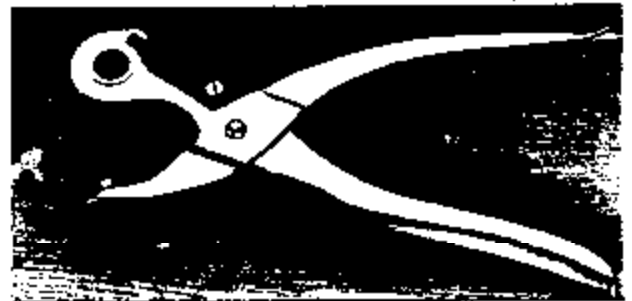
MAXI-PUNCH SET, 7-pc.
Same as Mini-Punch set above, except larger punch sizes: 3/16", 13/64", 7/32", 1/4", 17/64", and 5/16"
NO. 1578 . . . \$27.57

SET OF ADCO ARCH PUNCHES. Set of 7 sizes shown at right in wooden holder. 1/4", 3/8", 1/2", 5/8", 3/4", and 1".
NO. 1526 . . . \$115.86



INDIVIDUAL ADCO ARCH PUNCHES

Stock No.	Size	Price
NO. 1500	1/8"	\$11.16
NO. 1501	3/16"	\$11.16
NO. 1502	1/4"	\$11.16
NO. 1503	5/16"	\$11.16
NO. 1504	3/8"	\$11.87
NO. 1505	7/16"	\$11.87
NO. 1506	1/2"	\$13.28
NO. 1507	9/16"	\$14.69
NO. 1508	5/8"	\$14.69
NO. 1509	11/16"	\$15.28
NO. 1510	3/4"	\$18.33
NO. 1511	13/16"	\$18.33
NO. 1512	7/8"	\$18.33
NO. 1513	15/16"	\$19.98
NO. 1514	1"	\$19.98
NO. 1515	1-1/16"	\$25.85
NO. 1516	1-1/8"	\$25.85
NO. 1517	1-3/16"	\$28.79
NO. 1518	1-1/4"	\$28.79
NO. 1519	1-5/16"	\$31.96
NO. 1520	1-3/8"	\$33.61
NO. 1521	1-7/16"	\$45.24
NO. 1522	1-1/2"	\$45.24
NO. 1523	1-5/8"	\$52.88
NO. 1524	1-3/4"	\$60.51
NO. 1525	1-7/8"	\$69.91



REVOLVING TUBE PUNCH. Punches five sizes: 5/64", 3/32", 7/64", 1/8", 5/32", and 3/16"
NO. 232 . . . \$8.97

PUNCHES

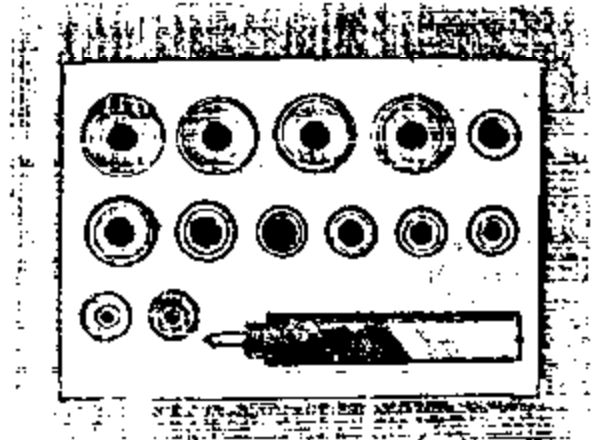
6

SELF-CENTERING PUNCH SET

Spring-loaded center pin both ejects and makes a dent which can be seen on the leather to guide a smaller punch, allowing exact centering. The spring loaded plunger can be removed and replaced with a sawed-down tube punch (see stock nos. 181 to 191) and you can make valve washers in one operation,

SET OF THIRTEEN: 1-1/2", 1-3/8", 1 1/2", 1-1/8", 1", 7/8", 3/4", 5/8", 1/2", 7/16", 3/8", 5/16", and 1/4".

NO. 1257 \$38.25

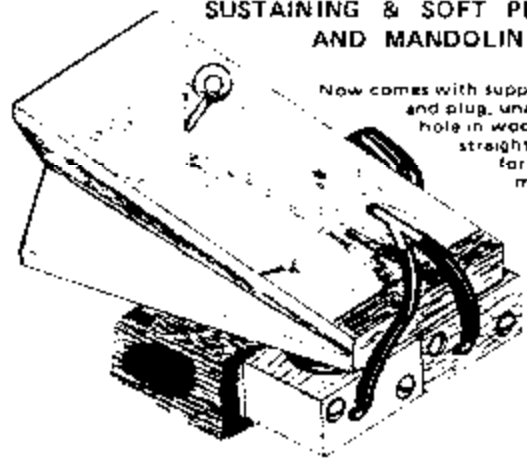


REROLL PNEUMATIC

Size 4-3/8" x 7" x 2". With two valves and 3/4" supply elbow, this pneumatic unit has enough power to respond rapidly with power to spare. Normally there is space on inside of piano case to the right of pneumatic motor to mount vertically. String may be attached to eye hook for pulling transmission lever to change gears to rewind. Or if push is required, a No. 911 finger can be placed over hinge end to reverse to a push, and use a connecting wire such as a straightened clothes hanger.

For automatic operation of the SUSTAINING or "LOUD" PEDAL, install this pneumatic horizontally in a space between the harp and the iron pedal rod which runs to the wooden stick on the left side of the piano. Attach a No. 911 pneumatic finger so about half its length juts out past the pneumatic's hinge end. Place the pneumatic in position on the floor of the piano with the finger spindled between the iron pedal lever and the end of the wooden dowel while the pneumatic is open (bending the finger to attain this position). Press the pedal by foot to check leverage position and take up slack in pneumatic stop-screw. If the pneumatic must close too far, reposition the finger to overhang further. The opening and closing of the attached pneumatic in no way interferes with operation by foot. If there is not quite 4-1/4" between the iron pedal rod and the harp, the wooden rod bracket may be moved slightly forward.

MULTI-PURPOSE PNEUMATIC: REWIND, SUSTAINING & SOFT PEDALS, AND MANDOLIN RAIL.

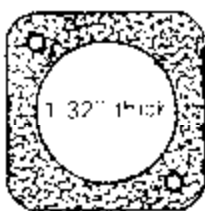


Now comes with supply elbow and plug, unattached, hole in wood drilled straight through for optional mounting

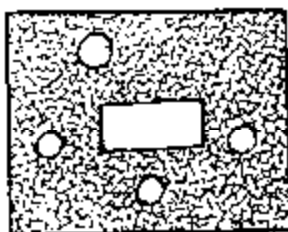
NO. 916 \$69.95

DIE-CUT GASKETS

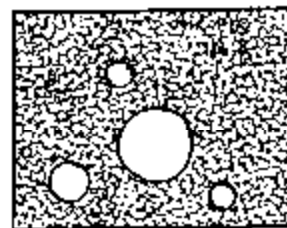
Cork-Rubber



AEOLIAN
No. 1227



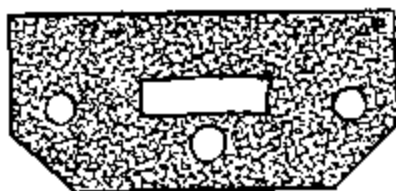
Comola
No. 414



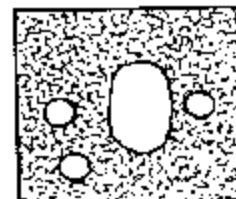
Simplex 2 tier
No. 413



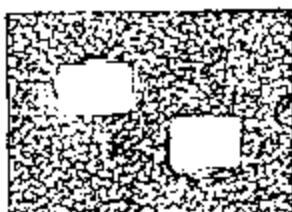
Ampico - old style
No. 587



Gulbransen 4 tier
No. 417



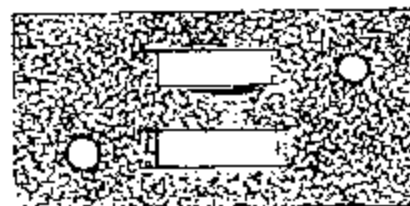
Simplex 2 tier
No. 412



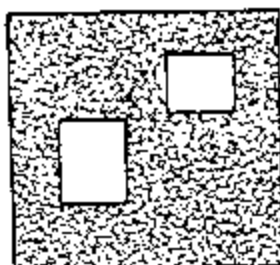
Ampico
No. 588



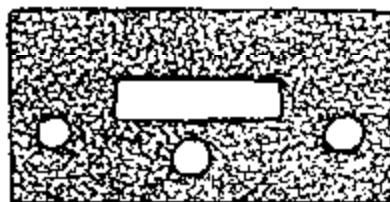
Gulbransen 3 tier
No. 416



Wurlitzer
No. 410



AMPICO MODEL B
No. 1182



Krell
No. 415

ALL GASKETS ON THIS PAGE
ARE 1/16" CORK-RUBBER
UNLESS OTHERWISE
SPECIFIED



Ampico
No. 418



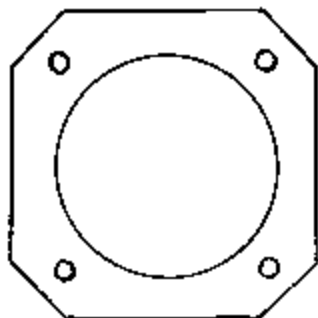
Lauter-Humana or Doyle Lane
No. 1234

No.	Stock No.	Each	Per 100
No. 410		.30	\$26.75
No. 412		.30	22.50
No. 413		.30	26.75
No. 414		.30	30.00
No. 415		.30	22.50
No. 416		.30	26.75
No. 417		.30	26.75
No. 418		.30	22.50
No. 587		.30	21.50
No. 588		.30	21.50
No. 1182		.30	28.00
No. 1227		.30	18.00
No. 1234		.30	28.00

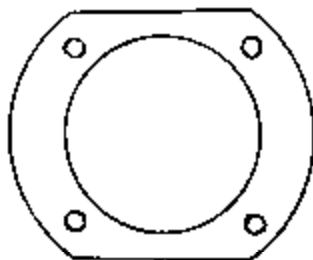
BLOTTER PAPER GASKETS

ALL GASKETS ON THIS PAGE ARE MADE OF .020" THICK BLOTTER PAPER

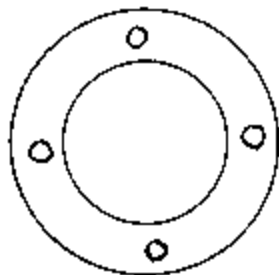
GASKET FOR AEOLIAN
CROSS VALVE
NO. 1226 10-99 .17
100 or more, ea. .14



GASKET FOR AEOLIAN
NO. 1225 10-99 .17
100 or more, ea. .14



STARR VALVE PLATE
GASKET
NO. 1230 10-99 .17
100 or more, ea. .14



ARTEMIS VALVE
PLATE GASKET
NO. 1232 10-99.17
100 or more, each .14



RINGS - ILLUSTRATED IN NEXT COLUMN

Prices are per packages of 100

NO. 666	1" O.D. x 13/16" I.D.	\$6.90
NO. 664	1-1/8" O.D. x 7/8" I.D.	\$6.90
NO. 665	1-3/16" O.D. x 15/16" I.D.	\$6.90
NO. 623	1-1/4" O.D. x 1" I.D.	\$6.90
NO. 421	1-5/16" O.D. x 1-1/16" I.D.	DJSC.
NO. 423	1-7/16" O.D. x 1-3/16" I.D.	\$5.00
NO. 424	1-1/2" I.D. x 1-1/4" I.D.	\$5.00
NO. 592	1-1/2" O.D. x 1" I.D.	\$6.90
NO. 425	1-9/16" O.D. x 1-5/16" I.D.	\$5.00
NO. 426	1-5/8" O.D. x 1-3/8" I.D.	\$5.00

1" O.D.
x 13/16" I.D.
No. 666

1-1/8" O.D.
x 7/8" I.D.
No. 664

1-3/16" O.D.
x 15/16" I.D.
No. 665

1-1/4" O.D.
x 1" I.D.
No. 623

1-5/16" O.D.
x 1-1/16" I.D.
No. 421

1-7/16" O.D.
x 1-3/16" I.D.
No. 423

1 1/2" O.D.
x 1-1/4" I.D.
No. 424

1-1/2" O.D.
x 1" I.D.
No. 592

1-9/16" O.D.
x 1-5/16" I.D.
No. 425

1-5/8" O.D.
x 1-3/8" I.D.
No. 426

LIFTER DISCS for pouches, pkg. of 100.

3/4" dia. for 3-tier
NO. 663 pkg. \$3.00

5/8" dia. for 2-tier
NO. 973 pkg. \$2.00



LEATHER VALVE FACINGS

Size	Shape	Thickness	Part No.	Material	Type of Valve	Price	Weight
1/8"	3/32"	.035"	1568	artificial	-----	---	\$2.85
3/8"	1/32"	.035"	735	Patent	Autopiano	.12	\$9.00
1/2"	none	.020"	1539	Cabretta	-----	---	\$5.00
1/2"	5/32"	.035"	581	Kid	Amphion/AMPICO	.18	\$15.00
1/2"	3/16"	.030	1231	Kid	Aeolian/ DUC-ART	.09	\$7.00
9/16"	none	.025"	1541	Cabretta	-----	---	Discontinued
9/16"	none	.035"	1561	Patent	-----	.13	\$10.00
9/16"	.078"	.025"	781	Patent	-----	.12	\$10.00
9/16"	1/8"	.035"	1540	Kid	-----	---	Discontinued
9/16"	5/32"	.030"	696	Kid	Standard	.13	\$11.00
9/16"	5/32"	.055"	697	Calf	Standard	.13	\$11.00
9/16"	3/16"	.035"	1178	Kid	Aeolian/DUC-ART	.13	\$11.00
9/16"	7/32"	.055"	1177	Kid	Aeolian/DUC-ART	.14	\$12.00
5/8"	none	.010"	661	pouch	Gulbrausen	.21	\$18.00
5/8"	none	.035"	1562	Patent	-----	---	\$6.00
5/8"	none	.025"	1491	Cabretta	Straube	.21	\$18.00
5/8"	none	.030"	649	Kid	Starr	.15	\$12.00
5/8"	1/16"	.045"	1554	Kid	Autopiano/ Starr & Clark	.15	\$11.00
5/8"	3/32"	.014"	1492	pouch	"	.21	\$18.00
5/8"	.097"	.040"	785	Patent	Grinnell/ Lester	.12	\$15.00
5/8"	3/16"	.030"	658	Calf	Starr	.15	\$12.00
5/8"	3/16"	.045"	1158	Calf	-----	---	\$10.00
5/8"	3/16"	.055"	690	Calf	Standard	.15	\$12.00
5/8"	7/32"	.035"	1542	calf	Pratt-Read	.15	\$12.00
11/16"	none	.015"	662	pouch	Gulbrausen	.23	\$19.00
11/16"	none	.025"	583	Kid	Amphion/AMPICO	.18	\$15.00
11/16"	none	.040"	1583	Kid	Amphion/AMPICO	.18	\$18.00
11/16"	pinprick	.030"	584	Kid	Amphion/AMPICO	.18	\$15.00
11/16"	1/16"	.035"	1117	Patent	Lester/Price & Secord	.13	\$11.00
11/16"	3/32"	.025"	1529	Kid	Standard - King Valve	.19	\$16.00
11/16"	1/8"	.040"	1682	Patent	-----	.18	\$15.00
11/16"	9/32"	.030"	1864	Kid	English Aeolian	.18	\$15.00
3/4"	none	.014"	802	pouch	-----	.24	\$19.00
3/4"	none	.023"	671	Kid	-----	.14	\$11.00
3/4"	none	.059"	1674	artificial	Schulz	---	Discontinued
3/4"	none	.072	674	sponge Ke	Schulz	---	\$9.00
3/4"	none	1/16"	1578	sponge Ke	-----	---	\$9.00
3/4"	1/16"	.018	629	skiver	Baldwin	.18	\$15.00
3/4"	double hole	.059"	672	artificial	Schulz	.36	\$30.00
3/4"	.078"	.035"	1114	Patent	Standard double valve	.20	\$16.00
3/4"	3/32"	.040"	1558	Patent	-----	.13	\$15.00
3/4"	3/32"	.050"	1223	Kid	Aeolian/DUC-ART	.21	\$18.00
3/4"	1/8"	.025"	1566	Patent	-----	.18	\$15.00
3/4"	1/8"	.070"	1734	silicone sponge	Boyle Lane	.22	\$18.00
3/4"	3/8"	.035"	1569	artificial	-----	---	\$6.00
13/16"	none	.014"	803	pouch	-----	.24	\$19.00
13/16"	1/16"	.018"	647	skiver	Baldwin	.18	\$15.00
13/16"	1/16"	.032"	1785	artificial	-----	---	\$5.00
13/16"	none	.060"	585	Kid	Amphion/AMPICO	.20	\$17.00
13/16"	pinprick	.025"	586	Kid	Amphion/AMPICO	.22	\$20.00
13/16"	3/32"	.062"	1229	Kid	Aeolian/DUC-ART	.37	\$32.00
13/16"	3/32"	.050"	1638	patent	Aeolian	.13	\$11.00
13/16"	1/4"	.035"	1186	Kid	Artemis	.15	\$12.00
13/16"	7/16"	.045"	656	Patent	J-R-S	.15	\$12.00
13/16"	1/2"	.020"	651	skiver	H.C. Kay	.15	\$12.00
13/16"	1/2"	.020"	718	artificial	Cable Co.	.18	\$15.00

HARD DISCS & WASHERS

<u>Size</u>	<u>Thk.</u>	<u>Thickness</u>	<u>Part. No.</u>	<u>Material</u>	<u>Type of Paper</u>	<u>Wt. or Price per 100</u>	<u>Price per 100</u>
5/16"	.176"	1/32"	1174	Fibre	Aedian-BU-ART---	---	\$8.65
5/16"	.179"	1/32"	1173	Fibre	Aedian(BU)-ART---	---	\$8.65
5/16"	.181"	1/32"	1176	Fibre	Aedian-BUC-ART---	---	\$8.65
15/32"	.095"	.010"	1119	Stainless St.	Standard	.35	\$28.00
1/2"	1/16"	1/16"	769	Fibre	-----	.09	\$6.45
17/32"	.094"	.010"	1113	Stainless St.	Standard	.20	\$16.50
9/16"	1/8"	.010"	1481	Stainless st.	Angelus	.20	\$16.50
5/8"	none	3/32"	667	Fibre	Gulbransen	.11	\$8.65
5/8"	.091"	.016"	1784	Steel		.20	\$16.00
5/8"	.094"	.016"	784	Steel		.40	\$32.00
5/8"	5/32"	1/16"	786	Fibre	-----	.11	\$9.00
11/16"	none	.015"	758	Aluminum	-----		Discontinued
11/16"	none	.050"	782	Aluminum	-----		Discontinued
11/16"	none	3/32"	1717	Fibre	Gulbransen	.13	\$10.00
11/16"	none	1/8"	167	Fibre	Amphion	.11	\$9.25
11/16"	.094"	.018"	1115	Stainless st.	Standard	.20	\$16.50
11/16"	5/32"	1/16"	783	Fibre	-----	.12	\$10.00
11/16"	3/16"	3/32"	1716	Fibre	-----	.10	\$8.25
3/4"	none	3/32"	1683	Fibre	-----	.14	\$11.00
3/4"	none	1/8"	1707	Fibre	-----	.15	\$12.00
3/4"	1/16"	1/16"	771	Fibre	-----	.15	\$12.00
3/4"	5/32"	1/16"	787	Fibre	-----	.15	\$12.00
13/16"	none	1/8"	1719	Fibre	Amphion	.13	\$11.00
13/16"	none	3/32"	1718	Fibre			Discontinued
13/16"	3/16"	1/32"	789	Fibre	Kwiktoer	.16	\$14.00
63/64"	7/16"	1/16"	686	Fibre	Simplex	.16	\$14.00
1"	3/8"	1/16"	683	Fibre	-----		Discontinued
1-1/16"	1/2"	3/32"	790	Fibre	Scumbar		Discontinued
1-1/8"	7/16"	1/16"	668	Fibre	Gulbransen	.16	\$14.00
1-1/4"	none	1/32"	777	Fibre	-----	.12	\$10.00
1-3/8"	7/16"	1/16"	767	Fibre	Kimbell	.41	\$35.00
1-7/16"	1/2"	.045"	677	Fibre	Schultz	.41	\$35.00
1-1/2"	1/2"	.045"	670	Fibre	Schultz	.24	\$20.00
1-1/2"	19/32"	3/32"	791	Fibre	Bedwith	.50	\$44.00

VALVE PARTS

PRIMARY BUTTON. Made of hard-wood. .496" O.D. x .155" I.D. 19/64" high with dome.

NO. 1859 1-9 ea. \$1.50
10 or more, ea. .35



DOWEL for above primary button.
NO. 1069. pkg. of 7 ft., ea. \$2.00

**WOODEN
FLUTED**



VALVE STEMS



No. 755



No. 756



No. 757

No. 755 for 2/8" hole, per ft. \$2.75
No. 756 for 7/16" hole, per ft. \$2.75
No. 757 for 1/2" hole, per ft. \$2.75



LEATHER NUTS - All with #50 size drill hole for pilot, except 3/8" size which has #46 drill center hole.

Part No.	Size	price 10-99	per 100
NO. 341	1/4" O.D.	.125	\$10.00
NO. 342	5/16" O.D.	.125	\$10.00
NO. 343	3/8" O.D.	.125	\$10.00

PACKING WASHER for valve stem. Made from silicone sponge, 1/16" I.D x 1/4" O.D. x 1/16" thick. Does not deteriorate or lose compression with age.

NO. 1112 10-99 ea. .15¢; per 100, 8.55
per 1,000, 56.70

PLASTIC NUTS, Self-threading. Soft brown plastic. 3/8" O.D. by 9/64" thick. Has round hole .110" dia. half way through and square hole .080" across the remainder. Square will catch thread on wire down to .090" (Most common size used was .103" thread dia.) Will replace wooden buttons on eye regulating screw thread (stock no. 1436, page B3.) Much easier to thread and will never cause wire to rust. Will never deteriorate, crack or slip. Sold only by package of 100.

NO. 346, per pkg. \$3.45

PNEUMATIC FINGER. 5" long, 1/4" x 5/16" drilled with 1/8" holes. Aluminum.
NO. 911 each \$2.00



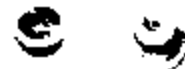
ALSO See: SPECIFIC BRAND PARTS Beginning on page 7 and PLANO FELTS & SOFTGOODS p. 55

FORCE FIT BRASS COLLARS

For press fit on valve stem, I.D. of collar should be 2 to 3 thous. inch less than stems.

Stock No.	O.D.	I.D.	Thickness	Use
NO. 1106	.215"	.078"	1/32"	Wester
NO. 1111	.215"	.088"	.050"	Standard
NO. 1156	.215"	.090"	.050"	Autopianc
NO. 1108	1/4"	.082"	.030"	---
NO. 646	5/16"	.081"	1/32"	Baldwin
NO. 1099	.241"	.12"	.018"	Chase-Staker

prices for above 10-99, 15¢ ea.
per 100 \$12.00



BRASS BLEED CUPS

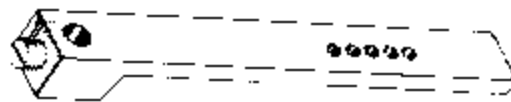
5/32" body, 13/64" rim, 11/64" depth.

NO.	drill size	Price Ea.	per 100
NO. 388	size #62	.18¢	\$15.00
NO. 382	size #54	.18¢	\$15.00

SET SCREW COLLAR .105" I.D.

9/32" O.D. and 1/4" thick.

NO. 889 1-9, each84
10-49 each64
50 or more40



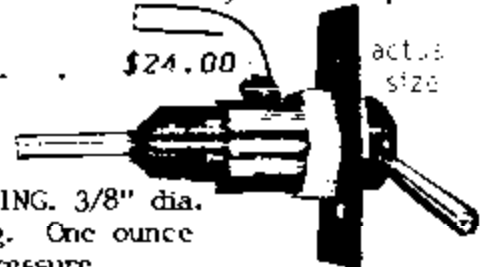
ADJUSTABLE ARM for linkage. 4-3/4"

long x 1/2" wide with multiple-select holes for inserting wire. Set-screw for hole that slips over 1/4" control rod.

NO. 688 \$4.56

TOGGLE AIR VALVE. Can be mounted in side of spool box to interrupt tube for loud pedal. Brass body & cover plate

NO. 1786 . . . \$24.00 actual size



POUCH SPRING. 3/8" dia. x 1 1/2" long. One ounce outward pressure.

NO. 1476 .45¢

VACUUM CONTROL

OUTWARD PRESSURE SPRINGS

- 6 lbs. pressure; 6" long.
NO. 272 each \$18.50
- 15 lbs. pressure; 8" long.
NO. 273 each \$8.90
- 14 lbs. pressure; 10" long.
NO. 274 each \$43.75
- 20 lbs. pressure; 12" long.
NO. 276 each \$44.75

- WIRE SPRING, 6", 4 lbs. outward,
for roll motor governor.
NO. 279 each \$2.30

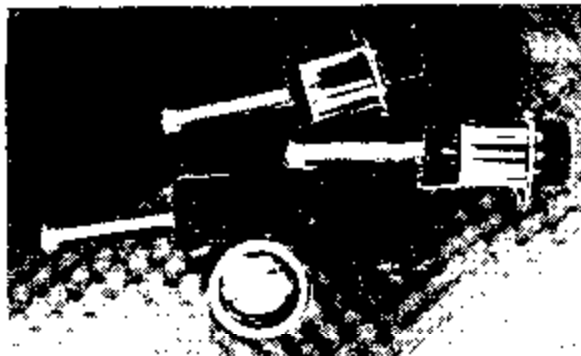
INWARD PRESSURE FOR PEDAL RETURN



- NO. 271 12 lbs. inward. ea. \$12.00



- SPRING FOR FINGER PUSH BUTTON - Flat
spring steel, 7/16" x 3-3/8" long.
Slightly curved with two screw holes at
one end. .021" spring steel.
NO. 285 1-9 each \$1.00
10 or more, each .75



PUSH BUTTONS. Set of three, complete
with stem and ferrule, which capture
button. *Actual size illustration.*

- No. 384 (set of three) \$7.00
No. 1483 (each) \$2.48

VALVE SEAT for cut-
off box. Fits 1"
hole. Rounded flange
stands 1/8" above
Surface.

- NO. 175550



PALLET VALVE. With
adjusting screw to re-
strict flow of air in-
to 5/32" tube from
valve opening. Spring
normally keeps closed;
String pulls valve open. Same as used
in No. 550 suction box kit.
NO. 396 \$8.00

VACUUM SUPPLY CUT-OUT POUCH BLOCK

for 1 1/4" hose

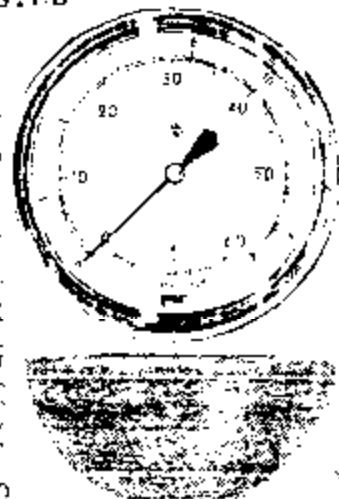
Inline cut-out is com-
pact and separates
hose ends by only 1-
1/2". Yet, due to its
construction, does not
restrict the maximum
air flow. Open con-
struction with spacers,
cloth covered, is rigid
and has no gasket to
ever leak. Bleed hole
is accessible at
bottom of intake tube.

- NO. 1385 . . . \$26.00

VACUUM TEST GAUGE. Graduated
to sixty inches of water-Hg
vacuum. A No. 254 nipple can be
inserted in the plug to attach
small tubes, or it can be held
against larger tubes. A must for
regulating expansion systems in
reproducing pianos.

Also for determining the amount
of valve leakage in a player
stack before dismantling: If your
constant vacuum source (such as
a vacuum cleaner) is 25 inches,
and the reading directly from the
tracker bar nipple is 20 inches,
then the loss due to leakage of
the valves is 15 inches. This
would not be tight enough to
pedal-pump. It is well to know
the extent of work needed before
beginning a restoration.

- NO. 390 \$71.40



VACUUM CONTROL

MOUNTING BLOCK for pair of Wurlitzer valve blocks. Size 3-1/8" x 2-5/8". Complete with gaskets, wood screws and compression springs. 3/8" vacuum supply nipple. A pair of lock and cancel valve units (No. 934), may be mounted on this, or No. 702 regular valve blocks with 1/4" tube may be used. Either one or two. (If only one is used, the remaining hole can be patched over).

NO. 933 (illustrated) \$12.25

Illustration showing use of No. 933 mounting block with the No. 702 valve blocks. The 1/4" tube coming from front could be used to operate control mechanism, such as the No. 1431 Acoustic Mellow-silks, or any small pneumatic.

NO. 702 each . . . \$14.30

LOCK and CANCEL. Illustration showing use of No. 933 mounting block with a pair of No. 934 lock and cancel valve blocks. Opening of the 5/32" elbow on top block allows a locking of valve up, whereby vacuum continues to flow through 1/4" nipple at side, even after closing. To unlock: open the 5/32" elbow on the lower unit after the former has been closed. Pair of lock & cancel valve blocks only.

NO. 934 . . . \$30.50

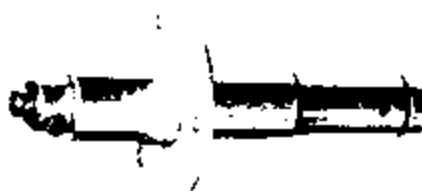
CHECK VALVE for 1-1/4" hose (gasket attached). Hose goes to vacuum supply and when this is turned off, atmosphere forces ball inside to close opening.

NO. 387 . . . \$17.90



STANDARD TRACKER BAR. Total length, 13-1/2". Has 88 note holes, plus one extra hole before and after, for rewind on other uses. (Total 90 standard size holes, 9-to-the-inch). In addition it has loud pedal and soft pedal holes. These are enlarged for chain bridging. No tracking holes or mounting holes. Is also the same tracker bar used for style O nickelodeon rolls. Solid brass.

NO. 2504 . . . \$175.00



LEFT HAND MUSIC ROLL CARRIER. Fits socket end of piano roll spool. Standard replacement on 88 note players. Important part of roll alignment and the old part should be replaced when it becomes worn and loose. Will adjust up to 5/8 inch, depending on the setting of collar on slide pin.

NO. 509 . . . \$31.50

FLEXIBLE VACUUM HOX HOSE - 1 1/2" I.D. flexible plastic, w/wire reinforcement. This is the size used on all piano suction boxes.

NO. 551 PER FOOT . . . \$2.75

CHECK VALVE for 2" hose. One way valve for either vacuum or pressure.

NO. 1141 . . . \$22.50

FLEXIBLE HOSE, wire reinforced, 2" I.D. For above check valve.

NO. 552 . . . per foot . . . \$7.07

SPOOLBOX PARTS



LADDER CHAIN. Plain steel. 42 links per foot.

NO. 516 price per foot **DISCONTINUED**

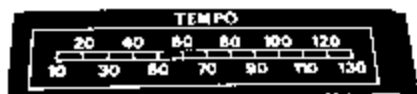
LADDER CHAIN. High tensile coppered. Will not stretch or rust. 42 links per ft.
NO. 518 price per foot \$1.50

LADDER CHAIN. Plain steel. 64 links per ft. (Used on Baldwin & Schulz)
NO. 517 price per foot \$2.58



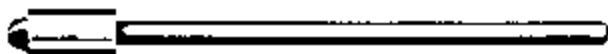
TEMPO INDICATOR SCALE. Replacement unit with standard graduation scale from 10 to 130 tempo. 3-1/2" span. Screws behind needle indicator in spoolbox.

NO. 501 \$5.50



Pressure sensitive plate only, without mounting.

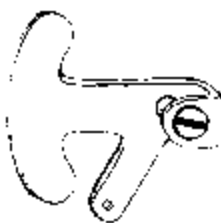
NO. 500 \$1.00



RIGHT HAND MUSIC ROLL DRIVE to fit right end of standard music rolls. 13/64" dia. shaft, 6" long.

NO. 510 \$11.00

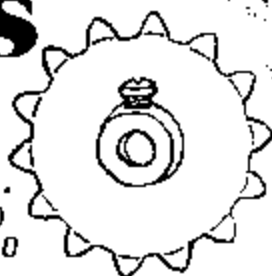
TRACKING CAM. This piece is positioned to ride on end of top shaft in transmission frame. Can be bent to correct angle so that up and down swivel will push top right hand chuck key against spring-loaded music roll.



(Remember, these new cams are supplied at a straight up and down degree and should be bent to suit need by holding with two pair of pliers).

NO. 506 \$7.90

SPROCKETS for LADDER CHAIN (42 links per ft.) for 13/64" Shaft. Alum.
NO. 1260 12 tooth DISC.
NO. 1261 14 tooth \$4.00
NO. 1262 16 tooth \$1.00



THREAD for "fish-pole" Tracking regulators. This is Kevlar thread, which is 5 times stronger than steel by weight. Will never rot or break like the original material used in the friction wheel tracking regulators, such as Brand & Simplex. One yard package.

NO. 51550¢

BRAKE WHEEL. 1-5/16" dia., 5/16" face; width with hub: 5/8", shaft size is 13/64"

NO. 522 \$4.83

SET-SCREW COLLAR, 7/16" O.D. x 13/64" I.D. x 1/4" wide.

NO. 523 \$2.48



TAKE-UP SPOOL. 2-3/4" clear plastic flanges. 12" body with 13/64" dia. pins extending 5/8" beyond. Right pin crimped for slotted drive socket.

NO. 508 \$38.50

NO. 519 Ladder chain idler.

Ea. \$3.50

AMPLIFIER VALVE for boosting sick notes.

If you have a note that plays only when you pull the tube off the tracker bar, then this is what you need.

It's a quick-fix for when you can't easily replace a porous patch or close down the bleed.

It works on the vacuum already in the 5/32" line. It takes a weak signal and delivers maximum atmosphere. Works like a primary valve, but isn't. Size: 1-3/8"x1-3/8"x11/16". Works in any position, any place in the line. Just sup the tube to the dead note and insert.



NO. 937 **DISCONTINUED**

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

NEW AEOLIAN

NEW AEOLIAN PARTS. This page is a listing of parts for the Aeolian player actions made from 1950 thru 1989, using the glued-on plastic valve block. A lot of history! Aeolian, the maker of the Du-Art, and American Trump Co., maker of the "Hippo" and "Aeolian" players, merged operations in the early 1930's to promote serious tone in the diaphragm. This resulted in the Aeolian-American Corp. In the early 1940's Aeolian-American was absorbed

by another plastic giant. Since the name of Aeolian was a very prestigious name, it was decided to change the logo to AEOLIAN.

The new AEOLIAN player action as it came to be known, could appear in various plastic bodies made by Aeolian, such as Du-Art, the "Hippo", or Handel.

The Aeolian Corp. of New York went bankrupt in 1989.

-- see #B-44 service manual, p. 91 --

PLASTIC VALVE BLOCK.
Specify nipple position:
Right, left, up or down.



NO. 1222 . . . \$14.00

PLAY-REROLL LEVER.
For 1/8" rod. Offset
1-3/4". Brass (Orig.
P/N 277-3).



No. 1750 . . . \$2.50

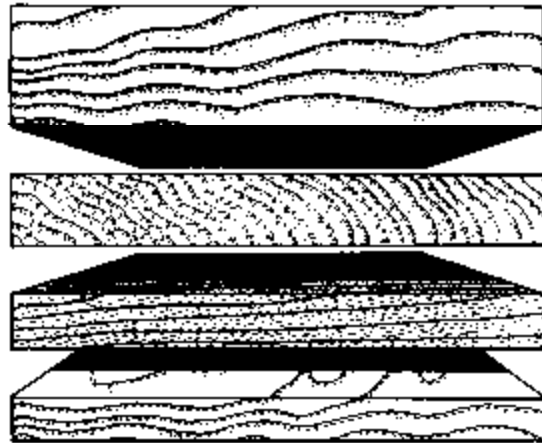
GOVERNOR KNIFE SPRING
[Orig. Aeolian P/N 276] .026" thk.
NO. 176050

SLIDE VALVE WIRE for roll motor, 4-
3/4" long.
NO. 175635

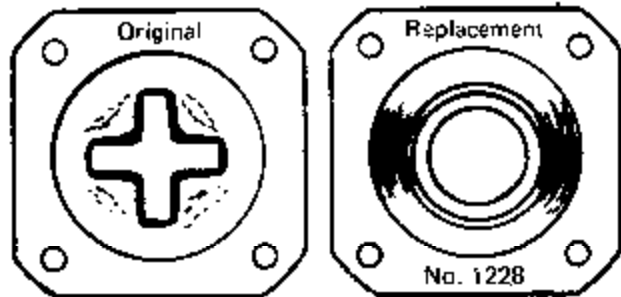
TEMPO PLATE. Brass, .035" thick.
NO. 1759 \$2.00

GOVERNOR SLIDE VALVE SPRING.(No.386)
[Orig. Aeolian P/N 1047] .015" thk.
No. 175475

AEOLIAN & DUO-ART PARTS



Set of DUO-ART expression ACCORDION
SPACER BLOCKS. (Suggest using No. 50
cloth instead of leather, and No. 320
Plastic Glue for best results). Set of
four square block spacers.
NO. 497 \$6.00



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

The new replacement is as per actual size drawing with 1/2" circle opening, sunken 3/16", for clearing 1-1/8" valve well. Made from stainless steel. .018" thick.

NO. 1228 1-99, \$3.00 100-more, ea. \$2.25

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

AEOLIAN & DUO-ART PARTS

*Also, see gaskets on page 18
Valve plates on page 26
Literature on page 83 & 87*

TOP VALVE FACING (This is the one which has red fibre collar to hold in place with paper shim washers underneath). .035" thick leather, 9/16" O.D. x 3/16" I.D.

NO. 1178 . . . 12-99 each,13
per 100, . \$11.00

BOTTOM VALVE FACING. .055" thick leather, 9/16" O.D. x 7/32" I.D.

NO. 1177 . . . 12-99 each14
per 100 . \$12.00

PAPER SHIMS for above valve spacing. 5/8" O.D. x 7/32" I.D.

NO. 1175 .009" thk. per 100 \$2.25
NO. 1075 mixture of 100 ea.
.003 & .012" thk. \$2.50

TOP and BOTTOM VALVE FACING, 3/4" O.D. x 3/32" I.D. for cross valve seat.

NO. 1229 . . . 12-99, each37¢
per 100 . . . \$22.00

PAPER SHIMS for above valve spacing. 3/4" O.D. x 7/32" I.D.

NO. 1275 .006" thk. per 100 . . \$1.75

RED FIBRE RETAINING WASHER for Aeolian valves. 5/16" O.D. x 1/32" thick. There were four sizes for I.D. used. Measure carefully: The I.D. should be about .004" undersize to the wooden valve stem for a press-fit.

NO. 1174176" I.D. . . . per 100 \$8.65
NO. 1173178" I.D. . . . per 100 \$8.65
NO. 1176181" I.D. . . . per 100 \$8.65
NO. 1179185" I.D. . . . per 100 \$8.65

VALVE PLATE SPACING SHIMS. Same die as used on No. 1225 gasket. A mixture of thin (.003" & .006") papers. When a valve needs a little more travel, instead of removing the retaining collar on the valve and readjusting the shims under the valve leather, just slip one of these under the valve plate for same effect.

NO. 1215 . . . pkg. of 100 . . . \$5.00

AMPHION PARTS

AMPHION VALVE REPLACEMENTS

Just save stem and spear onto new valve. 13/64" thick. Sold only in sets of 90.

NO. 559 11/16" dia., per set \$170.00

NO. 572 13/16" dia., per set \$170.00

REMOVEABLE CLOTH VALVE SPACERS. To set valve travel at .035". Pkg. of 100. Just lay between new valve and wooden valve cover, and run a bead of glue around edge; fish out when dry.

NO. 2402 . . . pkg. \$3.00

RUBBER PLUG to fit into No. 644 grommet. (By taping over channel to pneumatic before they are glued on, and plugging the valve seat, the entire cavity can be poured full of No. 326 Phenoseal. After draining, the plug and tape are removed and all seepage in cardboard and wood is eliminated). 7/16" head x .275" stem.

NO. 2404 . . . DISCONTINUED

GROMMETS for 7/16" hole, brass.

NO. 644 . . . 10-99, each44¢
per 100 \$32.00

GROMMETS for Amphion pneumatic stack with cardboard divider. Grommets set in 1/2" hole and clinches from bottom side.

NO. 639 . . . 10-99, each14¢
per 100 \$8.00

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

AMPHION PARTS

AMPICO grand PARTS

(Model A)



TEMPO SLIDE PLATE for replacing the celluloid strip found in all Amphon upright motor governors. Made of 3/32" brass. Slightly larger than used for grand governor.

NO. 1865 \$14.00



CARDBOARD DIVIDER, 3-3/4" x 10-3/4". Used in all upright Amphon pneumatic motors. Holes punched for the six pneumatics.

NO. 645 \$4.00-

AMPHION CARDBOARD. 36" x 3-13/16" x .038" thick. Two pieces required for each tier. (Trace valve well outline on blank and punch appropriate grommet hole on center).

NO. 643 per pair . . \$9.00

Primary button for AMPICO or Amphon. .496" O. D. x .155" I.D. 19/64" high with dome. Made of hard wood.

NO. 1859 1-9 ea. \$1.50
10 or more, ea. .35



Teflon intensity insert for valve rod on AMPICO expression. 3/32" I.D., .258" body. 1/2" flange diameter.

NO. 1857 \$4.50

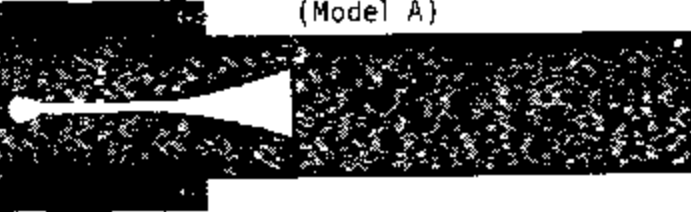


Pneumatic finger for Amphon pneumatics. Less bushing in hole for wire.

NO. 1860 1-9 ea. \$1.60
10 or more, ea. .42



SCREWS for above finger. #2x 3/8" RH
NO. 1677 box of 100, per box \$5.50



TEMPO SLIDE PLATE for grand tempo governor. Made of 3/32" brass.

NO. 1850 \$14.00



Wooden arm for model A - AMPICO stack (flange action) less capstan screw and bushing cloth.

NO. 1856 \$3.00

AMPICO DRAWER SUPPLY HOSE. Spring wire inside. 3/8" I.D. Set of three pieces, 14 1/2" long
NO. 595 per set \$15.00



AMPICO GRAND RUBBER MOTOR FRAME MOUNTS. Set of 4.
NO. 591 . . . set . . \$34.50



AMPICO GRAND TAKE-UP SPOOL. Like Original, except Teflon insert (No. 1858) in left hub, instead of ball bearing.

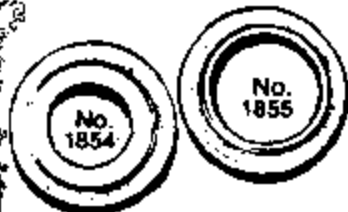
NO. 579 \$165.00



BRASS SPOOL BOX BEARINGS to replace the original ones made of lead, which hold the left plunger and the right music roll chuck key.

NO. 560 \$50.70

AMPICO Model B Grand PARTS



Some model A grands also used the Bakelite valve seats. These always leak because sealer cracks away from wood-plus, they are warped. They cannot be resurfaced successfully because there are air bubbles immediately below the surface. They should always be replaced, along with new valves-- 559 or 572 on page 28. This will insure an air tight pneumatic stack.

Valve seat for 11/16" dia. valve with 7/16" stem. Fits into 11/16" hole. Flange is 1/16" thick. To replace Bakelite seat in model B AMPICO unit valve. Made of aluminum.

No. 1854 each **\$1.50**

Valve seat for 13/16" dia. valve with 9/16" stem. Fits into 11/16" hole. Flange is 1/16" thick. To replace Bakelite seat in model B AMPICO unit valve. Made of aluminum.

No. 1855 each **\$1.75**

AMPICO VALVE PLATE, for 1" valve well on unit valve blocks. Made from .020 stainless steel. For either 11/16" or 13/16" valve diameter.



No. 1473 each **\$1.28**



SPRING clamp for AMPICO model B expression.

No. 1852 each **\$1.55**

AMPICO SPRING CLAMP for Model B unit valve block.

No. 1180 10-99 ea. \$.25
per 100 **\$20.00**



Model A
uses same size

For a 100 page illus. currently written mod. B rebuilding guide book, see page 99. Orig. serv. man., No. C-2 on page 91. Valve block gaskets, page 17



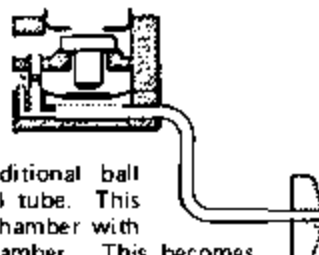
PNEUMATIC ARM & swivel for model B. AMPICO

No. 1853 each **\$1.00**

To get the best performance from the model B, this ball bleed should be replaced in each of the valve units

AMPICO MODEL B BALL BLEED

Used only in the Model B unit valve block. (See gasket No. 1182, page 17) This renowned innovation on the conventional bleed system is an additional ball bleed captured in a small tube. This joins the under pouch chamber with the atmosphere valve chamber. This becomes vacuum an instant before the valve is fully seated in the playing position. The ball raises with the valve because of atmosphere pressure, the same reason as the pouch raises, and allows a maximum stand-by bleed as long as the tracker bar hole is open, thus a faster reseating of valve and repetition without a primary valve. Also the fixed bleed being smaller, contributes to the power and rapid action of striking the note under the disadvantages of lower operating vacuum.



No. 598 ball bleed only each **\$1.55**
72 or more, each **\$1.25**

AMPICO MODEL "B" REROLL BRAKE DRUM, 2" diameter. On left side of spool box, to replace one made of pot metal.



No. 593 each **\$15.00**

MODEL B AMPICO GEAR. To replace fibre gear on electric roll drive motor which meshes with worm on motor shaft.



No. 558 each **\$95.00**

AMPICO VALVE SWITCHES — sold individually



MODIFY

No. 575 each **\$24.20**

PEDAL

No. 576 each **\$18.90**



AMPICO

No. 577 each **\$18.90**

REPEAT

No. 578 each **\$19.80**



SET OF FOUR AMPICO VALVE SWITCHES

No. 574 per set **\$71.50**

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

AMPICO (cont'd)

AMPICO TRANSMISSION FRAME
Aluminum replacement for the old pot metal frame. Machined frame only.
NO. 573 \$45.00

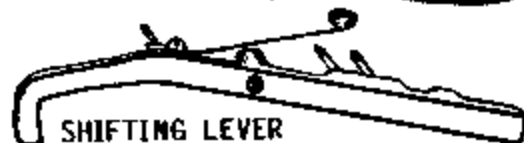
SET-SCREW COLLAR, 1/4" I.D. x 1/2" O.D. x 9/32" wide, for transmission frame.
NO. 597 \$2.48

PINION GEAR (14 tooth).
NO. 565 \$2.75

BRASS SHIFTING COLLAR
NO. 571 \$13.00

BRAKE DISK
NO. 561 \$8.00

SLIDE VALVE & SPRING
NO. 562 \$5.50



SHIFTING LEVER
NO. 563 **DISCONTINUED**

SOLID TEFLON TAKE-UP SPOOL BEARING for mod.A AMPICO. Fits in the end to replace original ball bearing and leather washers. With "O" ring seal, 23/32" O.D. x 3/16" I.D. x 11/16" long.
NO. 1858 \$7.25

SPOOLBOX VARNISH DECAL
NO. 590 \$6.50

DRIVE SPROCKET
14 tooth, 1/4" I.D.
For transmission.
NO. 567 \$4.25

AMPICO, Set of intensity valve block gaskets.
NO. 589 (takes 2 sets per piano) \$1.70

ALSO See: Gaskets on pages 5 & 17; Valve Facings p. 18; and Publications on page 91-92



AUTOPIANO PARTS

AUTOPIANO VALVE, 5/8" O.D. x 5/64" hole for threaded pin. 3/32" thick. Complete assembled valve with leather on fibre valve base. 1-9, ea. .63¢



NO. 729 . . . 10-on, ea. .59¢

AUTOPIANO VALVE, 3/4" dia. 5/32" thick. This is a replacement for the type that has two individual valves threaded on a valve stem pin.



The valve is backed by a hard piece of leather with pierced center hole for running over thread. Original valve wire may be reused and threads may be cleaned of corrosion by brushing with electric brush wheel. Side with 5/32" hole must face valve plate when installed.
1-9 ea. \$1.25

NO. 730 . . 10-99 ea. \$1.00
per 100. . \$95.00

PINION GEAR, 12 tooth. Engages with takeup spool gear.



NO. 691 \$6.50

BALDWIN PARTS

TRANSMISSION FRAME for BALDWIN-made player actions: Howard, Modello, etc., that used the pot metal frame. This is the replacement—now made of aluminum. Ready for installation of old gears and parts.
NO. 640 \$145.00



FORCE-FIT COLLAR FOR BALDWIN valve stem. 5/16" O.D. x .081" I.D. x 1/32" thick brass washer
NO. 646 10-99, each. .15¢
per 100 \$12.00



VALVE FACING, 13/16" O.D. x 1/16" I.D. x .018" thick.
NO. 642 12-99 ea. .18¢ per 100 \$15.00

VALVE FACING, 3/4" O.D. x 1/16" I.D. x .018" thick.
NO. 629 12-99 ea. .18¢ per 100 \$15.00

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

GULBRANSEN PARTS

GULBRANSEN REBUILDING KIT

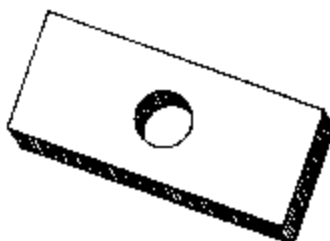
All materials, step-by-step instructions, and special hand tools to completely rebuild the 3-tier, glued-together type, including roll motor, and test and regulate to perfection.

NO. 2400 \$287.96

IRON BLOCK

3" x 1 1/4" x 3/8" with 5/8" hole in center, for use as driving block in removing Gulbransen pneumatics.

NO. 648 . . \$.55



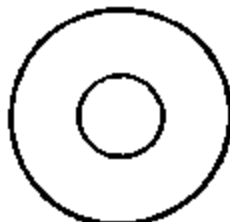
BOLT, 6-1/2" long, slotted, 1/4"-20 thd.

NO. 635 ea \$.82

GULBRANSEN VALVE COVER

Smooth fibre washer, 1/16" thick, to replace original made of wood. To install these: mark center dot on valve facing; center hole in washer over this and run a ring of No. 171 glue around edge while holding in position with your finger. 7/16" I.D. x 1-1/8" O.D.

NO. 668 10-99 ea. \$.16
per 100 \$14.00



PAPER RINGS for spacing valve cover. 1-1/8" O.D. x 7/8" I.D. x .020" thick. Pkg. of 100.

NO. 664 \$6.90

FIBRE VALVE BASE. 5/8" dia. x 3/32" thick. To replace the original one which is made of wood and may be warped. For three-tier stack.

NO. 667 10-99 ea.11¢
per 100 \$8.65

FIBRE VALVE BASE. 11/16" dia. x 3/32". Same usage as above, but for four-tier stack.

NO. 1717 10-99 ea. \$.13
per 100 \$10.00

ALSO See: Gaskets on page 17; Valve Facings p. 19; and Publications p. 94

JANSSEN PARTS

SMALL BRASS GEAR for worm.

NO. 997 \$45.51

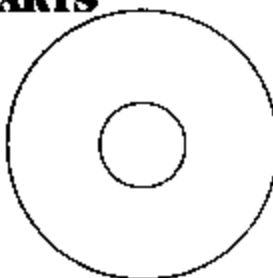
LARGE BRASS GEAR for worm.

NO. 998 \$50.00

KIMBALL PARTS

FIBRE WASHER, 1-3/8" O.D. x 7/16" center hole x 1/16" thick. For Kimball valves inside valve chest. Pneumatic cloth face crystallizes and must be replaced. Since these are glued flush onto the recess of valve well, it may be bent when prying out. Replace with a new one.

NO. 767 10-99 ea. \$.41
per 100 \$35.00



Pneumatic cloth punching for above washer. 1-3/8" O.D. x 7/16" I.D. The felt washer underneath is reused, since it is glued very lightly. Pneumatic cloth punching is glued only around the edge. This forms a soft pad for the valve to seat on. Sold only in package of 100

NO. 768 \$12.00

LAUTER-HUMANA

VALVE BLOCK replacement for Lauter. Made of plastic by Doyle Lane.

size: 1-3/8" high x 1-1/2" square



Without gaskets or screws. (See page 16 for gasket)
NO. 1233 \$14.00

MELVILLE CLARK



Replacement valve facing for wood valve body that screws into the Melville Clark pouch-pneumatic (as illustrated on p. 115, "Player Piano Serv. & Rebuilding." Sold by set of 100 and includes the pneumatic cloth punching found beneath this tan pouch leather spur shaped facing.

NO. 1762 set of 100 valve facings **DISCONTINUED**

Nickelodeon Piano Co.

RUBBER BELT for spoolframe. 13/64" rd. 3-3/8" I.D.

NO. 602 \$7.00

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

SCHULZ PARTS

Schulz pouch-pneumatic covering jig. See page 12 for full description.
 NO. 1670 \$44.50

TWILL TAPE. White cloth, 3/8" wide (for hinge end of pouch-pneumatic). Sold by the package, which is enough for a complete set.
 NO. 675 \$8.00

NEW COMPLETE SCHULZ VALVE. 13/16" dia. by 1/4" thick. Valve base made of solid fibre, which is better than rebuilding the original ones made of wood, which are porous and seep air, even with new valve facings. New replacements sold only by complete set of 92.



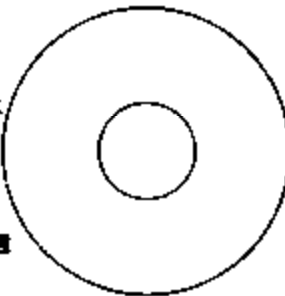
NO. 673 \$177.12

EXTRA THICKNESS VALVE FACINGS. Some Schulz valves are thicker than the 1/4" - #673 replacement set. For these situations you will need to order one set of the valve facings below, to spot to the atmosphere side, to have the right valve travel.

NO. 674 -.072" pkg. of 100 \$9.00
 NO. 1674 -.059" pkg. DISCONTINUED

See page 19 for valve cover washers for late model studio & grand stacks
 No. 677, 1-7/16" O.D. x 1/2" I.D.

SCHULZ FIBRE GLUE-IN VALVE WASHER. 1-1/2" O.D. x 1/2" I.D. x .045" thick.
 NO. 670 10-99 ea. .24
 per 100 \$20.00



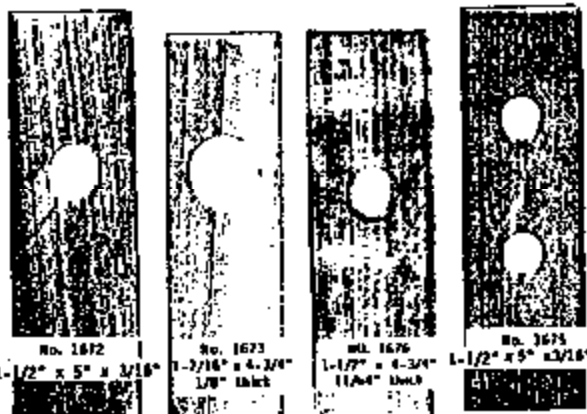
HOOK for Schulz pouch-pneumatic. (Upright action only).
 NO. 676 50¢

SCHULZ PARTS

SCHULZ REBUILDING KIT

EVERYTHING to completely rebuild the upright Schulz player stack with the pouch-pneumatic, and test it. All materials and special hand tools. Step-by-step rebuilding and testing instructions for a perfect job, are included.

NO. 2300 \$682.26



BOTTOM BOARDS for various Schulz stack pneumatics. Each, .50¢. set of 90, \$40.00

SEEBURG PARTS



SEEBURG MUSIC ROLL CHUCK. For "A" and "G" rolls. Takes 3-7/16" I.D. Core (See Stock No. 251) 1/4" square hole on left side. [Price per pair with connecting rod. Made of Aluminum.]
 NO. 608 \$50.00

SEEBURG WOODEN VALVE COVER. 1-1/8" O.D. x 7/16" I.D. Cover sets 3/32" down into 13/16" valve well.
 NO. 609 . . 1-99 ea. DISCONTINUED

SEEBURG FRICTION DRIVE WHEEL TIRE.
 NO. 606 . . Tire only . . . \$2.00

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

SIMPLEX PARTS

READY - MADE REPLACEMENT VALVES for 3-tier pneumatic, 11/16" dia. (Orig. was 3/4"). 13/64" thick. Valve stem 1/4" long x 27/64" (to clear 7/16" hole). Sold only in sets of 90.

NO. 682 \$159.00



Same as above, but with stem for 1/2" hole and valve 3/4" dia. Sold only in sets of 90.

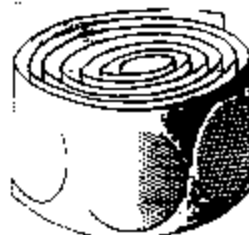
NO. 2682 \$164.84

READY-MADE VALVE SET for 2-tier Simplex pneumatic units (see No. 413 gasket on page 17) 5/8" dia. x 13/64" thick. Valve stem is 1/4" long x 23/64" (to clear 3/8" hole) Sold only in sets of 90.

NO. 681 . . . DISCONTINUED

PNEUMATIC HINGE. 1-1/4" cloth circle with pressure sensitive label coating. 100 per roll.

NO. 685 . . \$4.85



GAUZE STRIP for dust cover.

NO. 679 1" x 10 yds. ea. \$.20

SIMPLEX GLUE-IN VALVE WASHER. 63/64" O.D. x 7/16" I.D. Made of fibre, 1/16" thk., to replace original metal stampings.

NO. 686 10-99 ea. \$.16
per 100 \$14.00



RUBBER WASHERS for pneumatic motor. 1-1/8" O.D.x7/8"L.D.x1/16".

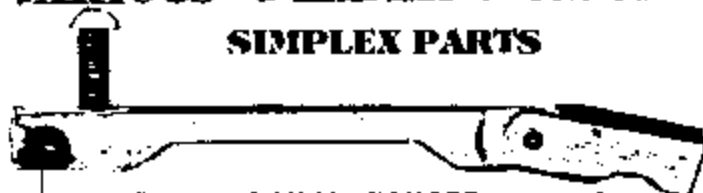
NO. 419 10-99 ea.10
per 100 \$5.00

SIMPLEX REBUILDING KIT

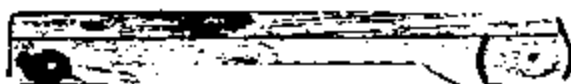
Everything necessary to completely rebuild and test a set of Simplex three-tier screw-on pneumatic units. Step-by-step instructions included. Also includes the No. 1680 tester (Ill. next col.) and the No. 170 pneumatic covering jig. New valves, pouches, lifter discs, hinges and gaskets, as well as all types of glue needed.

NO. 2600 for 7/16" valve hole \$473.16
NO. 2601 for 1/2" valve hole \$479.00

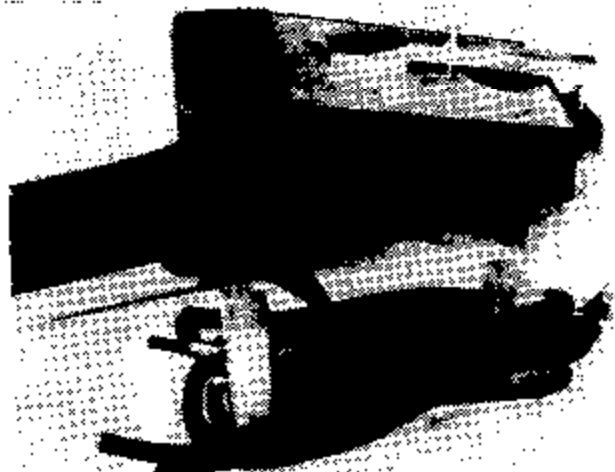
SIMPLEX PARTS



SIMPLEX FLANGE FINGER, complete.
NO. 1661 . . . 1-19 ea. . . \$2.00
20-87 ea. . . \$1.75
88-On ea. . . \$1.50



SIMPLEX FLANGE FINGER, without flange or capstan screw.
NO. 1681 . . . 1-19 ea. . . \$3.00
20-87 ea. . . \$2.50
88-on, ea. . . \$2.25



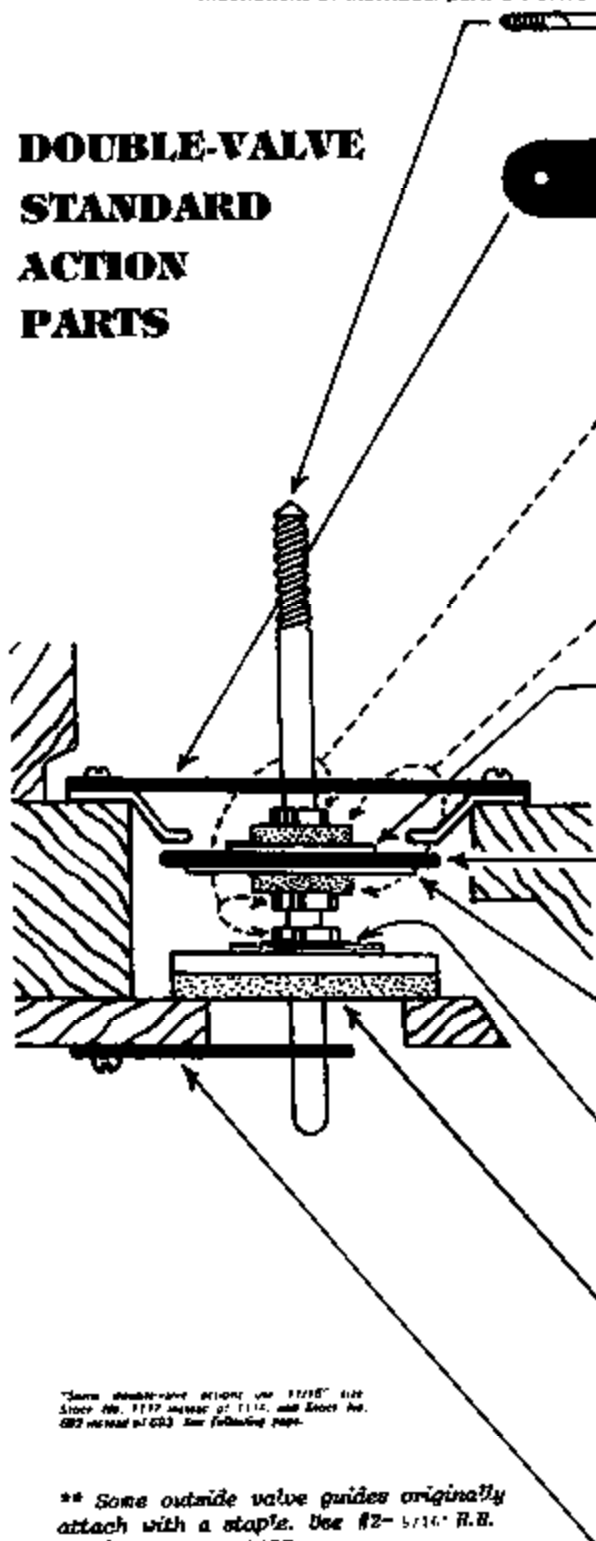
SIMPLEX VALVE TESTER. Has two parts: the foot pump and the clamp which holds the pneumatic unit to be tested. The clamp has the bleed and gasket. The valve body may be tested before pneumatic leaf is attached and before valve cover is glued in place. It can later be tested again when it is completely done, to insure that it is functioning properly before final assembly of the player stack. The reservoir of the foot pump is adjustable to store between 10 and 20 inches of water-lift vacuum. Tests are done by noting number of seconds it takes for reservoir to open up after collapsing. (Similar pneumatic units or valve blocks from other types of players could also be tested if the gasket in the clamp were modified.)
NO. 1680 . . . tester \$89.50

SPECIFIC BRAND PARTS

Stock No.	Description	Prices
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Illustrations of individual parts are actual size

DOUBLE-VALVE STANDARD ACTION PARTS



No. 1110	VALVE STEM, nickel-plated brass, .091" diameter.	1-9 ea. .56¢
		10-99 ea. .43¢
		per 100 \$ 133.00

No. 1109	VALVE STEM GUIDE, red fibre 1/16" thick. No bushing. hole # 40 drill size.	1-9 ea. .65¢
		10-99 ea. .58¢
		per 100 \$ 52.00

No. 1111	FORCED-FIT COLLAR, brass, .050" thick.	10-99 ea. .15¢
		per 100 \$ 12.00

SPONGE WASHER

No. 1112		10-99 ea. .15¢
		per 100 \$ 8.55
		per 1000 \$ 56.70

No. 1113	TOP PLATE, stainless steel, 17/32" O.D. x .094" I.D. x .010" thick.	10-99 ea. \$.20
		per 100 \$ 16.50

No. 1114	VALVE LEATHER, 3/4" O.D., .035" thick. Shiny side is outward to seat against plate.*	10-99 ea. \$.20
		per 100 \$ 16.00

No. 1115	BACKING PLATE, stainless steel, 11/16" O.D. x .094" I.D. x .018" thick.	10-99 ea. \$.20
		per 100 \$ 16.50

No. 1236	PAPER WASHERS, 1/2" diameter, .010" thick. Variable number used to achieve 3/64" valve travel.	Pkg. of 200 \$.95

No. 693	OUTSIDE VALVE, sponge neoprene (on "down" side) on backing washer, 3/4" O.D. x 5/32" I.D. x 3/32" thick.*	1-9 ea. .63¢
		10-99 ea. .51¢
		per 100 \$ 42.00

No. 1497	OUTSIDE VALVE ** GUIDE, red fibre.	1-9 ea. .35¢
		10-99 ea. .26¢
		per 100 \$ 21.38

*Some double-valve actions use 1112" size
Stock No. 1112 instead of 1114, and Stock No.
692 instead of 693 See following page.

**** Some outside valve guides originally
attach with a staple. Use #2-5/16" R.H.
woodscrews No. 1488**

**WOODSCREWS, #2-5/16" R.H. Box of 100
NO. 1488 per box \$4.30**

SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

STANDARD PARTS

RED FIBRE VALVE GUIDES
 These have no bushing cloth. Hole for valve stem body is a #40 drill size; this allows a free slip fit, but does not allow passage of the thread end for the pouch lifter button. They must be wound past the thread, which does not enlarge the hole.

JIG TO CENTER VALVE GUIDE. For outside guide only. Tool presses into valve well. New fibre valve guide is spindled onto pin and positioned with glue and a screw.



VALVE PARTS
 FOR SINGLE
 VALVE ACTION

NO. 1763 \$5.50
 NO. 1118 each .50
 10-99, each .47
 per 100 \$43.00



NO. 1498 each .35
 10-99 each .26
 per 100 \$21.38



NO. 1487 each
DISCONTINUED



Vacuum side valve facing.
 11/16" O.D. x .087" I.D. x .035thk
 (Shiny side goes toward seat).
 NO. 1117 10-99 each . \$.13
 per 100 . \$11.00



WASHER or TOP PLATE for above valve. 15/32" O.D. x .095" I. D. x .010" thick
 NO. 1119 10-99 ea. \$.35
 per 100 \$28.00



WASHER or BACKING PLATE for above valve facing (No. 1117)
 5/8" O.D. x .093" I.D. x .016" thick. Stainless steel.
 NO. 784 10-99 ea. \$.40
 per 100 \$32.00



ATMOSPHERE SIDE VALVE, 11/16" dia. with small center hole for a air tight fit when slipped over valve stem. 1/8" thick.
 NO. 692 . . . 1-9 each .63¢
 10-99 each .51¢
 per 100 \$40.00



BOTTOM PNEUMATIC BOARD for 3-tier Standard. 4-5/16"x1-3/8"x1/8" thick.
 NO. 687 . . . Ea.50
 per set of 90 . \$40.00

STANDARD PARTS

PINION GEAR. 12 tooth. 13/64" center hole. This is the small gear that projects through the side of the spool box and drives the large gear attached to the take-up spool. The old gear may be removed by: clamping shaft in vise, heating with butane torch until red hot. Comes off easily with pliers. Tap on new gear so that it is just started on shaft; heat gear until red-hot (when it expands, it will be larger I.D. than shaft) and tap in place while still hot. When it cools, shrinkage will make it very tight. (Never ream out hole or use solder: this is the only correct way to replace gear).



NO. 691 \$6.50

STANDARD ACTION

PEDAL PINS. This is the pin that drives into the toe of the pumping pedal and often is quite worn through use, and makes a "clacking" sound when pumping.
 NO. 695 . . . per pair . . . \$.45



HARD PAPER FIBRE BUSHINGS, like original ones used on Standard action pedal pump linkage. 5/16" O.D. x 1/4" I.D. x 1/4" long. Set of eight per pkg.
 NO. 1122 **DISCONTINUED**

INSPECTION PLATE for tracking regulator
 "To clean unscrew this block and remove dust from sieves."
 NO. 1690 ea. \$2.00

STARR PARTS

ALSO See: Gaskets on page 18; Valve Facings p.19; and Publications on page 52 & 95

PAPER SHIMS for valve spacing.
 5/8" O.D. x 7/32" I.D. per pkg. of 200, mixture of .003" & .012" thickness.
 NO. 1075 pkg. \$2.50



SPECIALIZED PARTS for VARIOUS PLAYER ACTIONS

STORY & CLARK PARTS

ATMOSPHERE SIDE VALVE, 5/8"
O.D. x 5/64" I.D., 3/32" thk.
NO. 729 1-9 ea. .63¢

10-on ea. .59¢

VACUUM SIDE VALVE, 3/4"
O.D. x 5/64" I.D., 1/8" thick.
NO. 730 1-9 ea. \$1.25

10-99 ea, \$1.00; per 100 \$95.00

VALVE SEAT. Smooth fibre washer, 1-1/8" O.D. x 7/16" I.D. x 1/16" thick, to replace the yellow cardboard. These may be placed over the yellow cardboard and sealed around the edge. Valve stem and valves can be adjusted to compensate for the lesser space due to leaving in the old valve seat.

NO. 668 . . . 10-99 each, . . . \$.16
per 100 . . . \$14.00

UNIVERSAL BRAND / CLASSIC PLAYERS

Classic Player Pianos is offering repair/replacement parts for the UNIVERSAL player action. Players using this action were produced in the 1970's under the brand names: UNIVERSAL, NATIONAL, and AMERICAN.

Classic began production in 1986 with the introduction of 3 of its own player models. Classic recently acquired the STORY & CLARK piano company and is now offering a STORY & CLARK player along with the "3300" series acoustic pianos.

Parts are also available for the BALDWIN Parlour player and LIBERTY brand players. (Private labelled by Classic).

Parts available include pouch assemblies, valve discs, and electronic update kits.

For parts information or technical assistance call or write Classic's Tech/Sv. department. CLASSIC PLAYER PIANO CORP., QUAKER Dr., Seneca, PA 16346. Ph. (814) 676-6683.

WURLITZER PARTS

WURLITZER UNIT VALVE

BLOCK POUCH RING. Polyethylene, 1-3/8" O.D. x 1-1/8" I.D. x 1/16" thick. Takes two for each valve block; first one holds pouch and second is clipped for air passage.

NO. 703 10-99 ea .11
per 100 \$8.25

COMPRESSION SPRINGS for #6 wood screw. 11/32" high, 9/32" O.D. (For Wurlitzer valve blocks).

NO. 700 1-9 each \$.25
10 or more, each \$.15

WOOD SCREW, R.H., #6, 2" long. For use with compression spring when attaching valve block

No. 707 10-99, ea \$.11, per 100, \$7.00

WURLITZER UNIT VALVE BLOCK.

NO. 701 \$14.00

WURLITZER UNIT VALVE BLOCK with extra instrument hole drilled in front with 1/4" straight nipple inserted.

NO. 702 \$14.30

WURLITZER VALVE COVER

Stamped from .029" stainless steel. 1-1/4" O.D. x 7/16" I.D.

NO. 706 1-99 ea \$1.32
100 or more, ea. \$1.10

ALSO See: Gaskets on page 17 Mounting Block p.23 and Publications on page 101

ORCHESTRION PARTS

ELECTRICAL PARTS

GLOCKENSPEIL BEATER. 1/2" round steel 1-1/2" long, with 4-1/4" wire stem. Nickel plated.
NO. 915 \$3.75

MONARCH Push-Pull coin slide. Takes two quarters (50¢). Cut 2-3/4" x 1 1/2" hole in front panel. [Stock no. 543 coin funnel may be mounted directly below this to register play.] Chrome plated.

NO. 920



DISCONTINUED

SINGLE STROKE BEATER for snare drum. Bolts onto rim of snare drum. Contains valve and beater attached to 3-1/2" x 2" pneumatic. 1/2" supply nipple.

NO. 917 . . . \$54.00



REPEATING BEATER for snare drum. Pneumatic cuts off its own supply with each stroke and repeats. Complete with valve and mounting block. 1/2" supply nipple.

NO. 918 . . . \$62.00

HARDWOOD BALL NO. 626 1-1/8" dia. DISC.



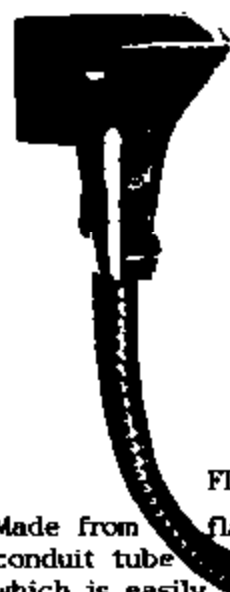
MICRO-SWITCH UNIT. Changes the tracker bar signal into electric. Can be used to operate electromagnets in coin-op instruments. 1/4" supply tube. 10 amp. rating.
NO. 534 \$22.50



"DROP COIN HERE" Pressure sens. Mylar label. 2-1/2" x 4-1/2"
NO. 1250 . DISCONTINUED



SIX INCH BRASS TUBE to go through keyed. 5/32" O.D. x .025" wall.
NO. 1076 DISCONTINUED



WIDE MOUTH COIN FUNNEL with micro-switch. This will receive either dime or quarter. It can be mounted inside piano to catch coins from outside drop.

Coin chute material also available to connect to the bottom to lead to cash box. Wires from micro-switch can activate latching relay.

NO. 543 . . . \$35.00

FLEXIBLE COIN CHUTE

Made from flattened aluminum conduit tube which is easily

bent in any direction. Dime, nickel, quarter, all run through without jamming. Sold by the running foot, any length.

NO. 546 per foot \$4.31

LATCHING RELAY. Has two 110V solenoids. One clicks to hold contact points on; the other clicks to turn off. This is a holding relay and only requires a momentary electric signal. It will stay in position until the other solenoid reverses the operation. 10 amp. rating.



NO. 533 \$29.00



OLD FASHIONED RAYON-COVERED ELECTRIC CORD for lamps or motors. 18 gauge. Sold by the running foot.

NO. 1128 color: brown. . per ft. \$.55

NO. 1129 color: gold. . per ft. \$.55

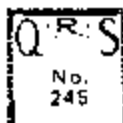
CHERRY SWITCH 10 amp., 2-1/2" lever, 2-1/4 ounce to activate. Ill. actual size.



NO. 529 ea. \$3.00

MISCELLANEOUS

Q-R-S roll box labels. Sheet of 16 labels for 2"x2" box.
NO. 245 \$.35c



SCOTCH MENDING TAPE for rolls. (Type 810, permanent, transparent. 1/2" x 1,296").
NO. 269 \$1.99



BLANK ROLL PAPER. 11 1/4" width. 80 ft. on spool (one lb.).
NO. 253 \$17.75

BLANK ROLL PAPER. 11 1/4" width. 25 ft. on spool.
NO. 255 \$10.25

GUMMED END TABS. Black cloth. Each tab comes with "D" ring. Pkg. of 100 \$12.50=
NO. 249 Ten more pkgs. ea \$10.00
NO. 2249 Pkg. of 12 \$1.80



TRACKER BAR PUMP. Made of aluminum. This handy pump can be tucked away in the piano bench or tool box for on-the-spot use, in case a punching from a new roll plugs a tracker bar hole. Has removeable dust catcher sieve behind rubber nozzle. Complete with nozzle.
NO. 474 DISCONTINUED

NOZZLE FOR TRACKER BAR PUMP. Since the above item has been standard for seventy years, chances are that you have come across an old pump that has outlasted the rubber tip.
NO. 475 \$4.83



DUST SCREEN for No. 474 pump.
NO. 487 \$1.75



NICKELODEON ROLL CORES
3-7/16" I.D. x 11-1/4" long. For A & G rolls.
NO. 251 DISCONTINUED

3" I.D. x 11-1/4" long. For O & CS rolls.
NO. 252 DISCONTINUED



BELLY CLOTH for undercovers on reproducing grand pianos. Black vinyl, .050" thick. Soft and stretchy. 54" wide. Sold by the running yard or fraction of yard.
NO. 1198 . . per yard . . . \$11.73

FASTENER PUNCH & DIE with instructions for installing new snaps on grand belly cloth. Enough parts for 24 snaps included in this kit. [Studs - the piece screwed into the piano and usually not needed--sold separately as Stock No. 1196].
NO. 1197 . . \$22.00



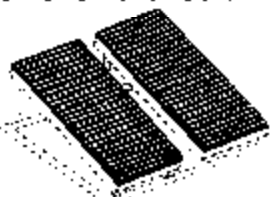
SNAPS. One doz. of all parts to make extra button-snaps for above.
NO. 1195 . . . \$6.62

STUDS for snaps. With 5/8" woodscrew thread. Per dozen pkg.
NO. 1196 . . . \$6.00



BEESWAX. 1/16" round x 11" long. Can be melted with soldering iron tip for sealing. Per box of 45 pieces.
NO. 1039 \$3.80

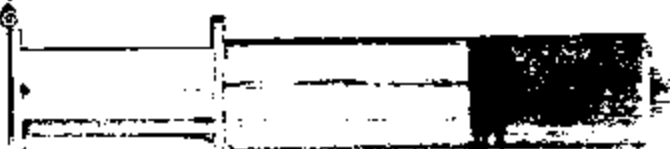
PEDAL MATS. Black grided rubber, 4"x10"
NO. 851 pair \$4.00
4 1/2"x10 1/2" PEDAL MATS
NO. 1051 pair \$4.47



MISCELLANEOUS



HYPODERMIC NEEDLE with plastic barrel. Steel needle 1-1/2" long with cover and cap. Can be filled by drawing up with needle insert removed, or poured in with plunger removed. Much more control than squeeze bottle for glues or oil. Capacity 12 cc.
NO. 1220 \$1.20



PLASTIC SYRINGE, 20cc, 1/16" hole for glue, or drill out hole and use for miniature tracker bar pump. Size: 7/8" x 4". Many uses.
NO. 1219 . . . ea. \$1.20

PIANO LID or BOTTOM BOARD LOCK. Drill a 1-1/8" hole to clear barrel. Either bolts or screws can be used. Panel can be up to 1-1/2" thick, but will bolt to any thickness. Comes with cam, which will catch on opposing surface when locked in position. When unlocked, handle jumps out for easy pull. Chrome plated. Key can be removed because it is relocked when pushed in again. Handle and lock protrudes 3/8" x 1-3/8" x 2-7/8"
NO. 553 . . . \$5.50



SOLENOID Size: 1-7/8" wide x 2-1/8" high x 3" long.
No. 535 \$5.50

FLEXIBLE VACUUM HOSE, 1-1/4" I.D. wire reinforced flexible plastic. This is the size used on all piano suction boxes.
NO. 551 per ft. \$2.25



GAUZE for dust filter. 1" x 10 yds.
NO. 679 . . . \$.20

RED FIBRE VALVE GUIDE 25/32" Center-to-center
NO. 1487 **DISCONTINUED**



ELECTRIC MOTOR REPLACEMENT for 1100 r.p.m. 8 Amp./115 V, 1/4 h.p., split phase capacitor, 1/2" shaft. Dimensions: 7" high, 6" wide (excluding shaft). Has mounting feet. This can be used as a replacement motor in electric pianos when the original is missing. Most all originally used 1100 r.p.m. speed. Rotation of the replacement motor cannot be reversed, but it has 7" shaft length from both ends. After determining which direction it needs to turn, saw off the opposite shaft.
NO. 960 \$175.00



DRY SHELLAC. Safe way is to mix your own. Paint store shelf-life on premixed, is always suspect. If old: disaster—it won't dry. Add denatured alcohol to the flakes and let dissolve in a glass jar overnight. The white is just more highly refined than the orange. (Made from a resinous substance secreted by a scale insect called *Laccifer lacca*.) If you need "burnt" shellac, use the orange, and after dissolved, just burn off the excess alcohol, until it's right for dobbing nipples, pneumatic fingers, etc. A unique sealer and makes a beautiful finish after steel-wooling. 1/2 lb. per pkg
NO. 328 WHITE \$5.88
NO. 329 ORANGE \$4.31

—Miscellaneous continued on page 73—

SUCTION UNITS

—Also see suction box for reed organ, P. 75



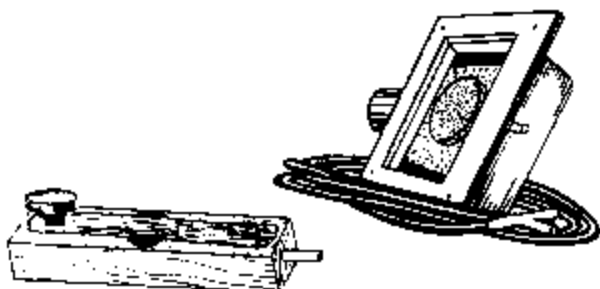
CAUTION - No suction box motor should be run full speed under sealed condition for more than five minutes. If it does not have a slight amount of air passing through, removing heat build-up, it will burn up the motor eventually.

"LITTLE WONDER" SUCTION BOX. 7-1/2" square. Internal check valve. Pre-wired switch box with electronic playing volume regulation, zero to 30 inches water gauge.

NO. 649 Each, \$185.00

ADJUSTAVAC POUCH FITTING. 1-1/4" hose fitting. Easy to install: drill pilot holes for screws and connect with an "X". Where the lines intersect drill a 1" hole. Gasket attached. Serves as a vacuum cut-out or low vacuum modulator when pouch nipple is connected to No. 385 or No. 396.

NO. 394 \$27.00



ADJUSTAVAC THUMBSCREW. A block of wood 3-1/2" long, 5/8" x 5/8". Turning knob screws in and out to adjust leak entering 5/32" tube. This starts the lifting of the valve in No. 394, as soon as bleed is overcome.

NO. 385 \$8.00

SUCTION BOX with CHOKE TYPE volume regulation. Box size: 7-1/2" x 7-1/2" x 10". Comes with No. 394 ADJUSTAVAC pouch fitting illustrated below, plus No. 385 and No.396 pallet valve which controls reroll speed separately, but has no effect on reroll by foot pumping. Comes with instructions and everything necessary for installation.

NO. 550 \$145.00

SUCTION BOX ONLY. Same as above, but no hose or controls. 55 inches of water lift vacuum, unregulated.

NO. 554 \$105.00

BLOWER BOX. Same size as above, but instead produces pressure for organ pipes. Can be regulated from 0 to 15".

NO. 941 \$277.50

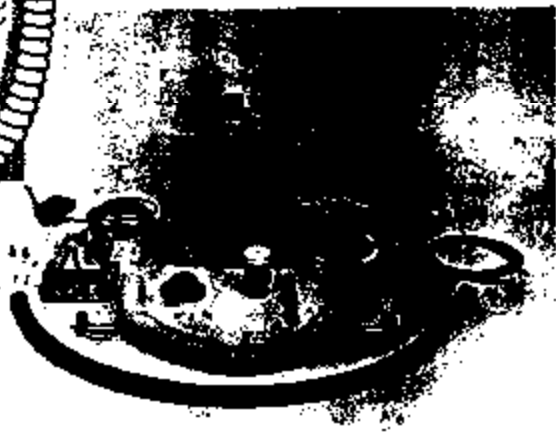
THE E1 CHEEPO

The low-cost, plain-jane suction box (10" square). Not even an on-off switch; you pull the plug to turn off. Delivers a constant 15" of vacuum, which is plenty for a rebuilt player. Has check-valve under the 1-1/4" straight flanged nipple on top. Quiet running.

NO. 699 Each . \$75.00

CTION UNITS

OR ... SAME, WITH REWIND
AND SHUT-OFF ADDED.



DELUXE SUCTION BOX KIT. Box size is 7½" x 7½" x 10". A new concept of player piano electrification systems introduced in this catalog in 1969, it has in a short time almost obsoleted the No. 550 kit due to its total electronic control and saving of installation time. Although it costs a little more to produce, comments from customers prove they rate it highly as the most ideal system yet developed.

Motor noise can be reduced to nil, because instead of running at a preset speed, motor speed is in direct relation to the vacuum required. A switching signal on re-roll reduces motor turnover to a minimum idle during rewind, then switches back to your preset volume on play. The motor runs cooler and with no noticeable sound on soft playing as well as re-roll. Without using the method employed by this kit, a suction box would have to run the same fast speed and regulate vacuum only by restricting the flow, or bypassing. This has always accomplished the effect, but does not decrease the ever-present running noise of maximum motor speed.

The tightness of the player system will determine the setting of the volume knob. It can be turned up to full speed to produce 45 inches of vacuum.

This kit comes complete with installation instructions. It has built-in check valves, so the original foot-pump feature remains operational. All pre-wired controls — just set box in place and drill one hole in original pump channel. Control panel mounts on underside of keybed with off/on switch, volume knob and rewind speed adjustment all in this one unit.

See page for replacement speed controls
No. 650, DeLuxe Suction Box Kit Ea. \$245.00
Two or more Ea. \$200.00

No. 655, Same as No. 650,
but without on/off switch. Ea. \$245.00
Two or more Ea. \$200.00

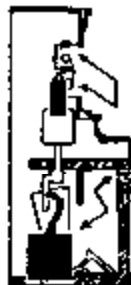
FULL AUTOMATION KIT. Now any vintage player can be given the best features of contemporary models, while retaining all its own best features. Instructions are provided, so even an inexperienced enthusiast can install properly and — without diminishing his instrument's value nor the operation of its original hand- and foot-operated features — add these convenient options:

Completely independent, automatic playing at the touch of a button in the spoolbox, with volume control at the turn of a knob under the keybed;

Automatic rewind — triggered through perforations already cut into all Q R S rolls for some years now — with adjustable rewind speed to prevent roll damage; and

Automatic shut-off after rewind, triggered by the flapping tab. All you do is mount the roll, engage into "Play", push the "On" button and walk away to enjoy your player remotely.

Even works well in leaky, hard-to-pump systems until the necessary rebuild can be scheduled. To effect the least alteration of a valuable instrument's appearance, we recommend the No. 652 switch be mounted in the top of the spoolbox.



Includes the No. 652 On/Off Switch, No. 916 Rewind Pneumatic, No. 655 DeLuxe Suction Box, 3' of No. 19 Tubing, 5' No. 3 Tubing, a No. 150 Elbow, and installation instructions.

No. 2800, Full Automation Kit
No. EACH \$368.79
Two or more, EACH . . . \$324.00

Since Player Piano Co. manufactures suction box kits and sells directly to the consumer, you will not find an equivalent unit anywhere at the same or lower price.

REED ORGAN SUPPLIES

ALSO See: Publications on page 88

Principal

SET OF STOP FACES, 7/8" diameter. White celluloid, black Old English lettering. Set of eleven: Bass Coupler, Treble Coupler, Vox Humana, Melodia, Forte, Diapason, Viola, Dolce, Dulciana, Celeste, and Aeoline.

No. 447. . . . per set of eleven **\$20.00**

MISSING STOP FACES: PPCo does not have any records of what stop faces were used in various reed organs, or the order. If you do not know, then your guess will at least fill a decorative need.

INDIVIDUAL STOP FACES FOR REED ORGAN.

Same type as above set. Price: **\$1.90 ea.**

1600 Aeoline	1617 Diapason Forte	1634 Piano
1601 Bass Coupler	1618 Diapason Treble	1635 Piccolo
1602 Bass Forte	1619 Dolce	1636 Principal
1603 Bassoon	1620 Dulcet	1637 Principal Forte
1604 Bellows Signal	1621 Dulciana	1638 Sub Bass
1605 Bourdon	1622 Echo	1639 Swell
1606 Celeste	1623 Echo Horn	1640 Treble Coupler
1607 Celestina	1624 Flute	1641 Treble Forte
1608 Cello	1625 Flute Forte	1642 Tremolo
1609 Clarabella	1626 Forte	1643 Trumpet
1610 Clarinet	1627 Gamba	1644 Viola
1611 Cor Anglais	1628 Harp Aeoline	1645 Viola Dolce
1612 Cornet	1629 Horn	1646 Violin
1613 Coupler	1630 Melodia	1647 Voix Celeste
1614 Cramona	1631 Oboe	1648 Vox Humana
1615 Diapason	1632 Octave Coupler	1649 Vox Jubilante
1616 Diapason Bass	1633 Orchestral Forte	

No. 445



No. 445 - STOP KNOBS, straight each \$1.40

No. 446

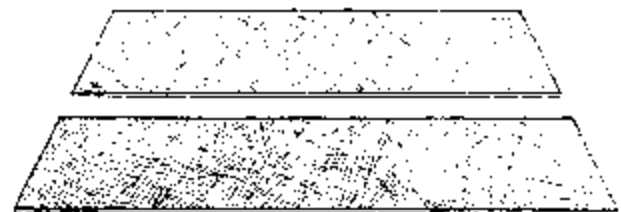


No. 446 - STOP KNOBS, beveled each \$3.50



ROD FOR STOP KNOBS 1/2" diameter, 7-1/2" long, no groove.

No. 449 each \$1.27



FLAP VALVES, made of heavy, stiff leather with lacquer finish on one side and fine, smooth valve surface on the other.

No. 440, 2 1/4" x 14" per pair **\$4.41**

No. 441, 2 3/8" x 15" per pair **\$5.78**



PLASTIC SHARPS, hump-backed, for reed organ keyboard.

No. 433, 3-1/2" long each **\$2.00**
Ten or more, each **\$1.68**



AEOLUS REED ORGAN BELLOWES CLOTH. Thickness .025" Size, 84" x 28". Rubber one side. For best results, apply with No. 303 hot glue.

No. 1054 each **\$33.33**



REED HOOK.

No. 442 each **\$5.00**

PEDAL WEBBING. White canvas, 2" wide.

No. 443 per foot \$.55



PEDAL HINGE for reed organs. Brass.

No. 438 each **\$1.92**

REED ORGAN SUPPLIES

REED ORGAN PEDAL RETURN
Spring, 9" long, 8 lbs. outward pressure.

No. 287. each \$9.90

PALLET VALVE SPRINGS. 3 3/4" long,
point-to-point, installed.

No. 428. 1-9 each \$.90
10 or more, ea. \$.70

Both springs shown actual size.

FOR LEAF SPRING
LOOK AT #176B ON
PAGE 25

PALLET VALVE SPRINGS. 4-5/16" long, measuring
point-to-point, installed.

No. 444. 1-9 each \$.90
10 or more, each \$.70



—Additional information on page 83—

PALLET VALVE PAD REPLACEMENT. After clean-
ing off old felt and leather, and sanding the pallet sticks,
they can be laid out on the strip of sponge Neoprene,
immediately after spreading No. 320 glue over the
1/8" thick Sponge Neoprene. Let dry overnight, then
slice apart with razor blade (Be sure there is NO space
between sticks.) Each strip is 4" wide x 36" long.

No. 1752. each \$2.50

REED ORGAN PEDAL MATS, 6 1/2" x 10 1/4" RUBBER, 1/4" Pyramid grid.
No. 1055 per pair \$6.50



REED ORGAN PALLET STICKS, 4-1/2" long x 11/64"
O.D.

No. 427 **DISCONTINUED**



REED ORGAN SUCTION BOX KIT. Size of box:
5-3/4" x 5-3/4" x 9-1/2" long. Off-on switch also has
volume control knob for soft to loud playing, which
electronically regulates motor box. Switch box can be
mounted at end of keyboard or out of sight underneath.

No. 448 Complete Kit ea. \$180.00
Two or more, ea. \$145.00

A two inch hole is bored in the top of the chest board
to the right of the "paddle-wheel" tremolo, and the
flange screwed down with connecting check valve and
suction unit. Can be installed in a few minutes without
any more dismantling than to take off the back cover
off the organ. No electrical connections to make.

GOLD LEAF TRANSFER SHEETS. Old lettering
outline is traced to plastic overlay sheet and then later
transferred back to refinished wood surface through
gold leaf sheet which works like "carbon paper." Plastic
sheet will handle up to 3" x 15". Instructions included.

No. 1127 \$8.50

HOW TO GET LEAD TUBING OFF AN OLD TRACKER BAR WITHOUT DAMAGE TO BAR.

*This bar is the same as that of most players tubed
with rubber. The lead tubing will neither crumble
nor slip off. It usually is incased in a sealer over
the lead, in addition.*

*Remove bar by cutting old lead with shears, 3"
back. The procedure is to slit the wall of the lead
with a knife over the brass nipple beneath.
Cutting against the brass will do little more than
scratch it. Spread one nipple at a time, slightly
away from the others. The brass will not break if
bent. Next, you pull the stub of lead away at the
same time you wiggle from side to side. This slit
has relieved the tightness and sideways twisting
breaks the sealer. It should come off clean and any
further sealer should break up, as the nipples are
bent outward.*

FALLBOARD DECALS

PIANO DECALS — \$6.50. Most are varnish transfers for piano fallboards; nothing is available for piano lid or harp, or reed organs (unless a manufacturer of both used the same decal for pianos and organs). Most are gold-leaf with black outline; a few have colored logos. The illustrations below are in alphabetic sequence (by last name in cases of men's full names, such as "Hobart M. Cable" and "Melville Clark"), and are only to indicate type-styles. They have been reduced by varying degrees; the actual dimensions are given in parenthesis following the stock number directly beneath each illustration, as are any exceptions to the above generalities.

THE AEDIAN COMPANY NEW YORK.

No. 1904 (13/16 x 5-3/4)

AEOLIAN



No. 1903 (1-1/8 x 2-1/8)

Acrosonic

No. 1901 (1-1/16 x 3-5/8)

AMPICO

No. 1902 (3/4 x 2-1/8)



No. 680 (2-13/16 x 3-3/4)
(apoolbox decal, in color)

The APOLLO
TRADEMARK REG.

No. 1907 (actual size)
(also see Melville Clark)

Armstrong

No. 1908 (2-5/16 x 4-1/2)

Autopiano
NEW YORK

No. 1909 (1-7/8 x 5-1/8)

FRANCIS BAGIN

No. 1911 (1-1/8 x 3-3/4)

Baldwin

No. 1912 (1-1/16 x 3-5/8)

BAUS

No. 1913 (15/16 x 3)

H. C. Bay Company
CHICAGO

No. 1916 (2 x 4-5/8)

BECKER BROS.
NEW YORK

No. 1915 (5-1/2 x 1-3/16)

Beckwith

No. 1917 (5/8 x 3-3/4)

John B. Bosc & Co.

No. 1918 (2 x 4-1/8)

BRADBURY
NEW YORK

No. 1919 (15/16 x 3-5/8)

The Brinkhoff
NEW YORK

No. 1925 (7/8 x 3)

BRAMBACH

No. 1921 (13/16 x 3-9/16)

BREWSTER
NEW YORK

No. 1922 (1-13/16 x 3)

BRINKERHOFF
CHICAGO

No. 1923 (1-5/8 x 3-9/16)

Bush & Gerts
Chicago

No. 1924 (1-1/8 x 3-1/2)

Bush & Lane

No. 1926 (5/8 x 5)

CABLE

No. 1927 (1-1/4 x 3-1/2)

CABLE & SONS

No. 1928 (3/4 x 4)

FAYETTE E. CABLE

No. 1929 (1/4 x 3-7/16)

HOBART M. CABLE

No. 1931 (3/8 x 8)

CABLE-NELOS

No. 1932 (1-5/16 x 3-3/4)

Calliophone

DISCONTINUED

Carillon

No. 1940 (3/4 x 2-3/4)

THE CHRYSLER
PIANO & ORGAN CO.

No. 1935 (5" x 3")

A.B. CHASE

No. 1933 (3/8 x 2-3/4)

CHASE & BAKER

No. 1934 (1/2 x 4-1/2)

Chickering
EST. 1828

No. 1936 (1-3/8 x 6-1/8)

Melville Clark

No. 2014 (1/2 x 3-11/16)

Melville Clark

APOLLO

No. 2015 (1-3/4 x 4-3/8)



No. 1939 (3 x 5)

Conway

No. 1941 (11/16 x 3-1/2)

Gremora

No. 1942 (2-5/16 x 4-7/8)

FALLBOARD DECALS

CHRISTIAN PIANO CO.

PHILADELPHIA
U.S.A.
No. 1943 (1-3/16 x 4-3/16)

Robertson-Corkey
NEW YORK
No. 1944 (1-15/16 x 5-1/4)

FOSTER & CO.
ROCHESTER - NEW YORK
No. 1959 (1-1/16 x 5-3/8)

DECKER & SON.
ESTABLISHED 1844
NEW YORK
No. 1945 (2-7/8 x 5-3/8)

Jacob Dettl & Sons
No. 1947 (5/8 x 6)

Ernstmann
No. 1948 (2-1/2 x 4-1/2)

DUO-ART
No. 1949 (3/8 x 2-1/16)
(also see Weber)

Duo/Art
No. 1950 (1 x 3-1/4)

Elmore
No. 1951 (1-1/2 x 4-1/2)

Harrington
No. 1952 (1-5/16 x 2-13/16)

Ramsport
No. 1953 (1-7/16 x 4-11/16)

Estey
No. 1954 (1-1/4 x 2-3/8)

FARRAND GUTHRIE
BOSTON - TORONTO
No. 1957 (1-1/4 x 4)

Fischer
NEW YORK

No. 1958 (1-13/16 x 2-15/16)

Trophies
NEW YORK
No. 1961 (2 x 4)

French
No. 1962 (11/16 x 2-1/2)

GABLER

New York.
No. 1963 (2-7/16 x 4)

GRINNELL BROS.
No. 1964 (1 x 5)

GULBRANSEN
Player-Piano
No. 1966 (1-1/8 x 4)

HADDORFF
No. 1967 (3/8 x 3-1/2)

H. Haines & Co.
New York
No. 1968 (1-3/4 x 5-3/4)

Haines Bros.
No. 1969 (3/4 x 4-1/16)

Hallet, Davis & Co.
BOSTON - TORONTO
No. 1971 (1-1/8 x 4-1/2)

HAMILTON
No. 1972 (1/2 x 4-3/8)

MANUFACTURED BY
HARDMAN, PECK & CO.
NEW YORK
No. 1975 (1/2" x 2-1/4")

HARDMAN

CHICAGO
No. 1874 (1-1/2 x 3-3/4)

HARRINGTON
No. 1976 (3-3/8 x 5/16)

Hazleton Bros.
NEW YORK
No. 1977 (1-3/8 x 4-3/8)

Hinze
CHICAGO
No. 1978 (1-5/8 x 4)

Holzer
Chicago - Minneapolis
No. 1980 (1-1/2 x 3-1/16)

Howard
No. 1979 (1-1/16 x 2-15/16)

IVERS & POND
No. 1981 (1/2 x 5-1/16)

Jacobs Bros.
No. 1982 (1-9/16 x 3-3/4)

JANSSEN
No. 1983 (9/16 x 2-3/4)

JEWETT
BOSTON
No. 1984 (15/16 x 2-1/8)

-KIMBALL-
No. 1986 (1/2 x 4-1/4)

Kingsbury
No. 1987 (1-5/16 x 4-3/4)

Dr. Knabe & Co.

No. 1988 (1-3/4 x 4-9/16)

Kohler & Campbell
NEW YORK
No. 1989 (13/16 x 4-3/8)

KOHLER & CHASE
No. 1990 (1 1/2" x 2-3/4")

KRAKAUER
No. 1991 (1/2 x 5-1/2)

KRANICH-SCHACH
No. 1992 (15/16 x 4-5/8)

KURTZMANN
No. 1993 (1-5/8 x 3-7/8)

LAFFARGUE
NEW YORK
No. 1995 (3-1/4" x 1-5/8")

Lagonda
MANUFACTURED BY
JESSE HATCH & SONS PIANO CO.
No. 1994 (3/4 x 2-1/4)

LAKESIDE
CHICAGO
No. 1996 (7/8 x 3-1/4)

Lauter
No. 1997 (actual size)
(gold only; no outline)

LEONARD & CO.
PHILADELPHIA
U.S.A.
No. 1999 (2-3/4 x 4-7/8)

LESTER
PHILADELPHIA
U.S.A.
No. 1998 (1-1/8 x 3-5/16)

FALLBOARD DECALS

Lexington

No. 2001 (5/8 x 4-1/8)

Kinderman & Sons

No. 2002 (1-1/4 x 4-1/2)

LINK
BINGHAMTON, N.Y.

No. 2003 (2-3/8 x 4-1/2)

Ludwig

No. 2004 (1 x 3)

LYON & HEAVY

No. 2006 (7/16 x 3-3/4)

Mayer & Weber

No. 2007 (2-1/8 x 5-3/8)

Mason & Hamlin

No. 2008 (1-1/8 x 7-15/16)

Mason & Risch

Carroll
No. 2009 (1-3/16 x 4-7/8)

Manuals

The Baldwin Piano Company

No. 2010 (1-3/16 x 3-1/2)

Mauthner

No. 2011 (1-7/8 x 4-1/2)

McPhail

Winstok
No. 2005 (1 1/2" x 4")

MELTZER & SONS
NEW YORK - CHICAGO

No. 2012 (5/8 x 3-7/16)

Meldorf
Chicago

No. 2013 (1-5/16 x 3-3/8)

Mendelssohn

No. 2016 (1/2 x 2-1/8)

Henry J. Miller

No. 2017 (1-1/4 x 4-5/8)

MILLS NOVELTY CO.
CHICAGO

No. 2018 (1-11/16 x 4-15/16)

MILTON

No. 2019 (1-1/8 x 2-13/16)

MONARCH

No. 2021 (3/8 x 3-1/4)

NELSON-WIGGEN
CHICAGO

No. 2023 (3-3/4 x 5-5/16)

Packard

No. 2026 (1-9/16 x 3-3/8)

PEASE
NEW YORK

No. 2028 (1-7/8 x 2-7/8)

Peterson Piano Player Co.
NEW YORK

No. 2027 (1-1/16 x 5-3/8)

PIANOLA

No. 2029 (9/16 x 3-1/8)

POOLE
BOSTON
U.S.A.

No. 2031 (2-1/16 x 2-5/8)

PREMIER
GRAND
NEW YORK

No. 2032 (1-1/16 x 3-7/16)

PRICE & TEEPLE

No. 2033 (1/4 x 3-9/16)

Primalone
NEW YORK

No. 2070 (4 1/2" x 1 1/2")

REGENT
PHILADELPHIA
U.S.A.

No. 2045 (4" x 2")

Remington
RICHMOND, IND.

No. 2034 (13/16 x 1-13/16)

REPRODUCTION
GUTHRIE

No. 2036 (1-3/4 x 3-3/4)

Smith & Barnes

No. 2052 (5/8 x 6-1/8)

Ricca & Sons

No. 2035 (5/8 x 5-1/4)

Royal

No. 2038 (5/8 x 3)

ADAM SCHAAF
CHICAGO

No. 2042 (15/16 x 4-1/4)

Schaeffer

No. 2041 (15/16 x 3-9/16)

Schiff Bros. Co.
ESTABLISHED 1888

No. 2043 (1 x 3-3/4)

SCHILLER

No. 2044 (1/2 x 3-11/16)

SCHUBERT
NEW YORK

No. 2040 (2-3/16 x 3-13/16)

M. Schulz & Co.

No. 2046 (5/8 x 5-5/8)

Schwartz

No. 2047 (3/4 x 3-3/4)

S.P. SEIBURG & CO.
ORCHESTRION
CHICAGO

No. 2049 (2-1/4 x 4-3/4)
(for style "G")

SHONINGER
ESTABLISHED 1864
NEW YORK

No. 2051 (1-3/8 x 4-3/16)

Solmer & Co.

NEW YORK
No. 2076 (3 1/2" x 1 1/2")

Starch

No. 2054 (13/16 x 3-3/16)

Staff
CHICAGO, ILL.

No. 2056 (7/8 x 1-3/4)

George Steck

No. 2057 (1-1/2 x 3-15/16)

Steger & Sons

No. 2058 (5/8 x 5-1/4)

STEINWAY & SONS

No. 2059 (1-5/8 x 4-3/8)

Stirling

No. 2061 (7/8 x 2-7/8)

DISCONTINUED

Chas. M. Stett **Weber**

No. 2062 (11/16 x 6)

McCARTHEANOLA
No. 2072 (1-3/8 x 3-5/16)

STORY & CLARK

No. 2063 (5/16 x 3-7/8)

Welter-Mignon

No. 2074 (1/2 x 3-1/4)

Straube

No. 2064 (3/4 x 2-3/16)

WERNER
-CHICAGO-

No. 2076 (1 x 4)

STROUD

No. 2066 (11/16 x 2-1/2)

Weser Bros.

No. 2077 (1-3/8 x 3-7/8)

SYMPHONOLA

No. 2080 (3-11/16" x 3/8")

TANGLEY: See
"Calliophone"

WESTBURY

No. 2079 (1/4 x 2)

THE TECHNOLA PIANO

NEW - YORK
No. 2065 (5-3/4" x 1-5/8")

WING & SON

No. 2075 (4 1/2" x 3/4")

Loose & Howe

No. 2068 (1-7/16 x 5-1/4)

Wurlitzer

No. 2082 (1-5/16 x 3-7/8)

Waltham

MILWAUKEE
No. 2069 (1-5/8 x 5-1/8)

WURLITZER

No. 2085 (9/16 x 4)

WEAVER
-YORK, PA.

No. 2071 (13/16 x 2-7/16)

WURLITZER

No. 951 (1-1/2 x 6-1/16)
(band organ or photoplayer)

**INSTRUCTIONS
FOR APPLYING VARNISH TRANSFERS**

Crease one corner back away from lettered side. Wipe sponge with varnish across lettered side as well as area of finish which it will be applied to. Wipe evenly and thinly with foam sponge. When the finish surface is tacky in about twenty minutes, press transfer in place and rub with your finger. Immediately pull off heavy paper from turned corner, leaving tissue paper. Rub with finger again. Leave for an hour and then sponge with warm water until tissue paper crinkles, indicating it is ready to peel off, as the gelatin between tissue and lettering is dissolved. Blot dry. Allow two days drying time and spray light mist coats of spray-can varnish or lacquer at intervals to match finish and protect lettering.

If you need a name that is not in our selection, you might consider making your own. See #1127 on p.75

PIANO SUPPLIES KEYBOARD



PLASTIC SHARPS for piano keyboard. 3-1/2" long.
No. 432..... 1-9, each \$.50
10 or more, each \$.41



WHITE KEY FACINGS. One-piece, front and top, molded plastic key covers. Complete set of 52. Old tops are removed and new facings glued with No. 313 Pliobond contact cement over old fronts.

No. 331..... per set \$27.00



WHITE KEY-TOPS, one-piece with rounded edge, molded plastic .070" thick. Made to exact size for a factory-like job; hardly any filing or fitting to do. Roughness or discoloration of key will not show through. Re-install keys in keyboard after stripping old ivories, apply Pliobond to back of key-tops and press in place. No clamps necessary. With straight-edge C-clamped to keyslip, adjust key-tops for uniform lips. 52 key-tops per set.

No. 431..... per set \$28.95

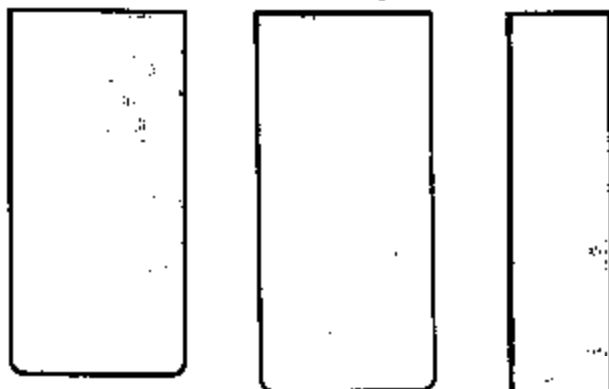
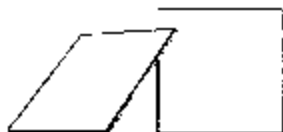
YELLOWED KEY-TOPS. Similar to No. 431, but off-white, as original ivory develops in time. Set of 52.

No. 1031..... per set \$25.70

PIANO SUPPLIES

KEYBOARD

WHITE KEY FRONTS.
One inch squares of white plastic, .030" thick. Set of 52. These are glued and filed to size before applying tops (No. 421). Glue with contact cement (No. 313)
No. 430 . . . set **DISCONTINUED**



SIMULATED IVORIES in plastic. Same thickness as genuine ivories (.045), and same shades in marbelized grain. Available in white and yellowed, to blend with new or aged ivories. Opaque; will not show wood grain beneath. Can be applied with No. 313 Pliobond contact cement. Will not warp.

WHITE

No. 1240, Front 1-7/8" x 7/8" . . . each \$ ⁶⁹
No. 1242, Front 1-15/16" x 7/8" each \$ ⁶⁹
No. 1244, Tail 3-15/16" x 1/2" . . . each \$ ⁶⁹

YELLOWED

No. 1243, Front 1-15/16" x 7/8" each \$ ⁶⁹
No. 1245, Tail 3-15/16" x 1/2" each \$ ⁶⁹

PIANO TUNING PINS, 2 1/2" LONG. Various diameters from .286" to .306". Send a sample of old, and next size larger will be sent

No. 1659 . . . EACH 50¢



ZITHER or HARPSICHOORD TUNING PINS.
(Illustrated actual size.) Nickel plated.

No. 1660 . . . 1 - 99 each \$.35
per 100 \$27.00

PIANO CASE

BRASS KNOB, 5/8"

No. 1299 each \$.85



WOODEN KNOBS

(Height indicated is exclusive of attached screw)

LARGE KNOB for fallboard, 11/16". 1-3, each \$.48
No. 1307 four or more, each \$.39

MEDIUM KNOB for fallboard, 1/2". 1-3, each \$.48
No. 1308 four or more, each \$.39

SM. KNOB for spoolbox panels, 7/16". 1-3, each \$.48
No. 1309 four or more, each \$.39

BLACK RUBBER BUTTONS



For 5/16" hole, with 7/16" dome.

No. 856 10-99, each \$.11
per 100 \$8.63

For 7/16" hole, with 9/16" dome.

No. 857 10-99 ea. \$.14
per 100 \$11.56

For 3/16" hole, with 7/16" dome.

No. 858 10-99, each .12
per 100 \$10.00



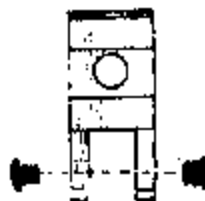
RUBBER-HEAD TACKS

Stock No.	Size	10-99 ea.	Per 100
No. 852	3/8"	\$.10	\$8.63
No. 853	1/2"	.11	\$10.00
No. 854	5/8"	.15	\$12.00

SELF ADHESIVE, black rubber button, 7/16" dia., 3/16" high dome.

No. 1684 10-99, each \$.14
per 100 \$ 10.00

TEFLON BUSHINGS. To replace worn out bushing cloth in piano action flanges. A pair of these cost less than a new flange, but they will take heavy use before having any wear, and will never be affected by humidity conditions that cause sluggish action. Just drill out old cloth and press in. .050" center hole. .137" body

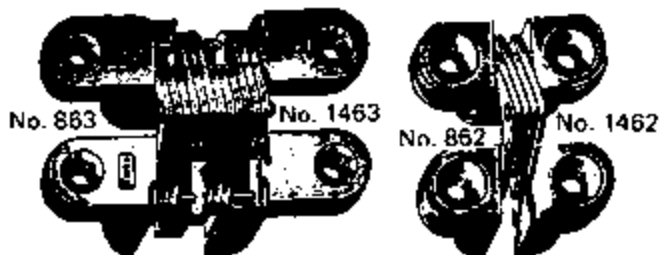
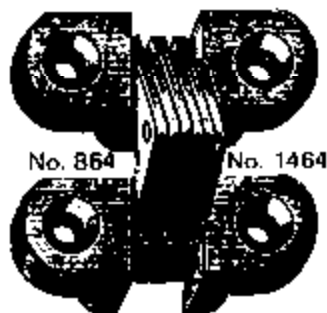


No. 1399 . . . **DISCONTINUED**

PIANO SUPPLIES - CASE

SOSS INVISIBLE HINGES. Many players hinge the lever control cover board with three or four of these hinges. (In front, below keys.) Screws included with new hinge. Measure mortised slot in wood for size. Now available in two finishes: Cadmium (silver) and dull brass.

- No. 862 Cadmium 3/8" x 1" each \$10.00
- No. 863 Cadmium 3/8" x 1-11/16" each \$13.57
- No. 864 Cadmium 1/2" x 1-1/2" each \$11.94
- No. 866 Cadmium 1/2" x 1-3/4" **DISCONTINUED**
- No. 1462 Brass 3/8" x 1" each \$ 9.83
- No. 1463 Brass 3/8" x 1-11/16" each \$14.21
- No. 1464 Brass 1/2" x 1-1/2" each \$11.94
- No. 1465 brass 1 1/4"x3/8"..... each \$ 8.00



--See page 103 for continuous strip hinge--

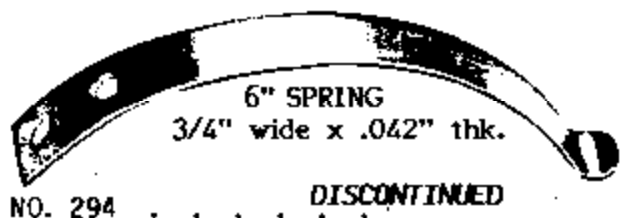
Stock No.	Size	Length	
1466	No. 4	3/8"	
1467	No. 4	1/2"	
1468	No. 4	5/8"	
1469	No. 4	3/4"	
1470	No. 4	1"	
1471	No. 6	3/4"	

WOODSCREWS FOR HINGES. Threaded all the way to head. Oval head slotted. Brass plated.

PRICE FOR ALL SIZES.per dozen \$.75

BRASS SCREW BUSHINGS

- No. 1136 for No. 4 screws per 100
- No. 1137 for No. 6 screws per 100 **all sizes discontinued**
- No. 1138 for No. 8 screws per 100
- No. 1139 for No. 10 screws per 100



KEY.

No. 1392. Triangle end. ... ea. \$ 1.47

No. 1393. Square end. **DISC.**

No. 1461 Knife hinge, **pair**
(for front panel-to tilt out for sheet music.) **\$14.46**



SET OF PEDALS

for standard brass round caps. Right pedal is 7" from brass cap to center of rod hole; left pedal is 5 1/2" from cap to rod center. Middle or dummy pedal is 11 1/2" overall with pivot pin in center.



- No. 1440 set of all three \$100.00
- No. 1441 Right & Left w/o middle, pr. \$ 67.00



BOTTOM BOARD SPRING CLIP. Attach to underside of piano keybed.

No. 290 each \$1.25



TRAP SPRING

for holding up sustaining and soft pedals.

- No. 295, 3 1/4" ea. \$1.25
- No. 296, 4 1/4" ea. \$1.25

PIANO SUPPLIES - ACTION

CAST IRON PIANO CASTER. Exactly the same as used on most old upright players. With four screw holes in the flange. Hub is 15/16" dia. Wheel dia. is 1-3/4". Distance from top of flange to bottom of wheel is 2-11/16".

NO. 860 ea. \$9.25



Piano wire coiler for tuning pin.
No. 1373 \$24.94

FLANGE for standard caster. Hub is 15/16" O.D. x 7/16" I.D. Made of aluminum.
No. 867 **DISCONTINUED**

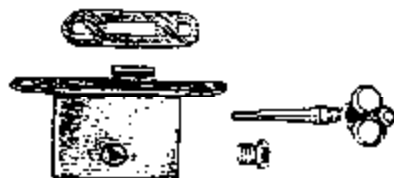


KIMBALL DAMPER FLANGE. This goes on the piano action. A spring wire is attached to a brass flange. The old brass quite often cracks with age, requiring replacement of this part.

No. 1143 ea. \$2.52

BRASS BILLINGS FLANGE. This is used in place of the wood flange (No. 1331) on the Billings hammer butt.

No. 1689 ea. \$.76



Standard piano lock for triangle key. Nickel plated. Set includes lock, strike plate, escutcheon, and key.

No. 1395 . . . set \$11.00

Action bracket bolt knob.

NO. 1333 \$.75
3 or more, each . . \$.65



RUBBER BOLT CAP, 1/4" I.D.

NO. 855 1-9 ea. \$.25
10 or more, ea. \$.12



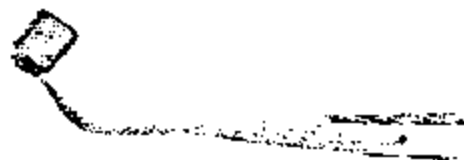
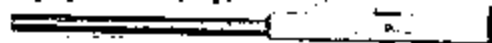
STOCK NO.	SIZE	DIA.	FT. PER COIL
1350	12	.029	111
1351	12-1/2	.030	104
1352	13	.031	96
1353	13-1/2	.032	92
1354	14	.033	83
1355	14-1/2	.034	75
1356	15	.035	74
1357	15-1/2	.036	72
1358	16	.037	69
1359	16-1/2	.038	65
1360	17	.039	62
1361	17-1/2	.040	59



PIANO WIRE sizes 12 to 17 1/2. (American Standard Music Wire Gauge.).
Per 1/3 lb. coil, ea. \$11.30

ADJUSTABLE STICKER. For upright piano action repair. This is the part which rests on the back of piano key. Since the length of these parts vary, the dowel can be glued to proper length by telescoping.

NO. 1349 \$5.00



CORK BRIDLE STRAPS for piano action. (set of 88). This simply plugs into the hole that the original one went through. The old one is usually rotten and will tear near the glued starting point.

NO. 897 **SMALL** for 13/64" hole \$16.80.
NO. 898 **MEDIUM** for 15/64" hole \$16.80
NO. 899 **LARGE** for 17/64" hole \$16.80

PIANO SUPPLIES - ACTION

No. 1432

HAMMER RETURN SPRINGS
 NO. 1332 for full size upright
 NO. 1432 for modern console
 12-99 each **.13**
 per 100 **\$10.00**



DAMPER FLANGE with spring. (Requires No. 1341 burnishing tool to fit bushing felt to proper size for pin).
 NO. 1330 ea. **.84¢**

REGULATING SCREW.
 .093" x 1-1/8".
 NO. 1436 10-99, ea. **\$.12**
 per 100 **\$9.00**



REGULATING BUTTON. 11/32" O.D. x 3/16" thick. Hardwood. Pkg. of 100
[Also see No. 346 Plastic]
 NO. 1435 **\$7.75**



NO. 1376 Flange screw, #7x11/16"
 per box of 100, **\$3.66**

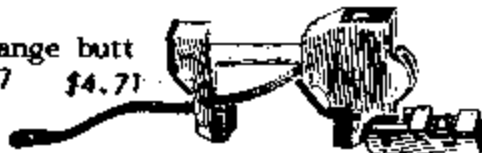


Pratt, Readtype BUTT & WHIPPEN FLANGE
 No. 1331 1-99 ea. **\$1.21**
 100 or more, ea. **\$1.00**

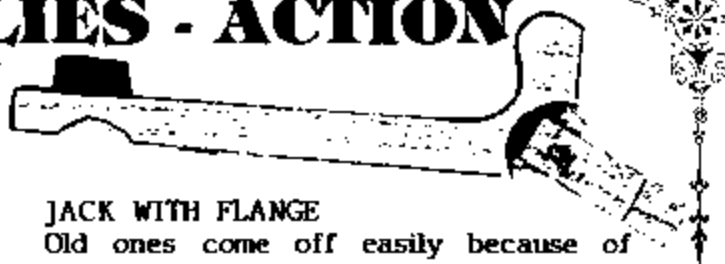
BRASS BUTT PLATES, with screws.
 NO. 1342 1-9 each **\$.48**
 10 or more each **\$.35**



Wood flange butt
 NO. 1337 **\$4.71**



SPRING CLIP BRIDLE STRAPS.
 88 Vinylite tip. To insert, simply press clip over butt stop shank. For use on type without the normal hole to plug cork bridle strap into.
 NO. 1188 per set **\$20.00**



JACK WITH FLANGE
 Old ones come off easily because of deteriorated glue joint, and should be broken off and reglued anyway. Might as well replace with new and eliminate worn bushings.
 NO. 1374 **\$1.60**

JACK SPRINGS, 1"
 NO. 1334 12-99 ea. **.08**
 per 100 **\$6.90**



UPRIGHT TREBLE DAMPER SET
 40 - 3/8" wide x 1-3/16".
 NO. 1688 **\$36.67**



INDIVIDUAL DAMPERS
 (from broken set of No. 1688, single spares).
 NO. 1489 **\$1.00**



UPRIGHT BASS DAMPER WEDGES

Set of 30, 1-3/8" long. Set consists of 10 pieces for single strings (left illustration) and 20 pieces for double strings.

NO. 1325 per set **\$27.57**
 NO. 1493 spare singles, ea. **1.00**
 NO. 1495 spare doubles, ea. **1.00**

Set of 30, 1-3/4" long. Set consists of 10 pieces for single strings and 20 pieces for double strings (right illustration).

NO. 1326 per set **\$30.50**
 NO. 1494 spare singles, ea. **1.10**
 NO. 1496 spare doubles, ea. **1.10**

TRICHORD DAMPERS
 NO. 1327 1-3/8" long, ea **\$1.10**
 NO. 1328 1-3/4" long, ea **\$1.22**

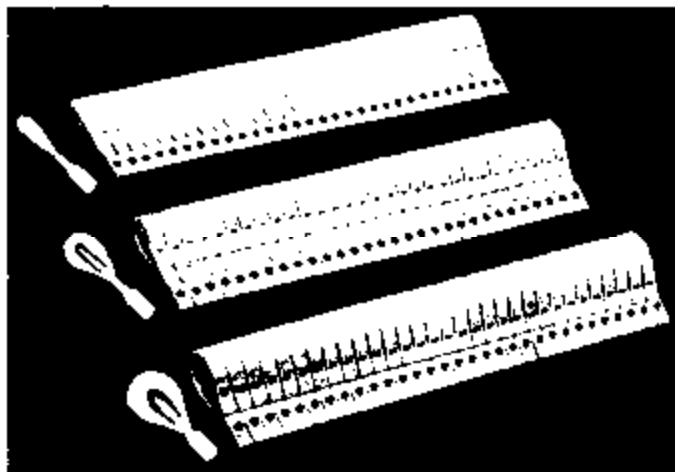


PIANO SUPPLIES - FELTS



MAPLE HAMMER SHANKS, 7/32" x 5-1/4"
NO. 1318 . . . 10-99 each . . . 13¢
per 100 . \$10.70

UPRIGHT HAMMER HEADS. All standard bore. That is, tenor section is at an angle opposite the angle of the bass section. To fit 7/32" dia. hammer shanks above. (For individual, broken set hammers see No. 1380).



COMPLETE SET of 94. Six spares to account for differences in rail break angle change. 31 bass hammers angle-bored 2-1/4" from shank to striking point; all others 2-1/2". Largest bass hammer is 1-3/8" at fattest point.

NO. 1311 . . . \$287.20

INDIVIDUAL HAMMER REPLACEMENTS. (For uprights only). Trace around hammer size you need and send tracing with your order.

NO. 1380 . . . \$5.25

WOVEN FELT. 1" x 52" x 1/8" thick. Used on bottom of piano action abstract, where key capstan screw

makes contact. Used in full strips on some player actions. (Color is white.)
NO. 1339 . . . \$9.50



HAMMER RAIL CLOTH.
1-1/4" x 54" long.
NO. 1336 . . \$8.73

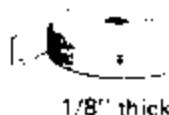


MUFFLER FELT. 2" x 54". Soft white felt, 1/16" thick.
NO. 886 \$1.17



RED spring rail felt.
13/16" x 52" x 1/8" thk.
NO. 1321 . . . \$3.80

GREEN spring rail felt.
13/16" x 52" x 1/8" thk.
NO. 1320 . . . \$3.80



1/8" thick

GENUINE BUCKSKIN
7/16" wide for butts
To reduce to 3/8" wide for butt-check, stretch strip before cutting into small pieces. 1/16" thick.
NO. 1335 per ft. \$1.50



BACK CHECK FELT, 3/8" x 1-1/8" x .275" thick.
NO. 1323 Maroon -DISCONTINUED

NO. 1324 Green, traditional firm, pressed felt.
1-87, ea. .24¢
88-on, ea. . . .20¢

RED NAMEBOARD FELT.
5/8" wide x 52" long.
.070" thick. Goes on fall-board above keys.

NO. 869 1-9 each \$.83
Roll of ten strips \$5.00



FIRM RED FELT. .080" thick, 3/4" wide x 52" long.

NO. 1439 . . \$1.25

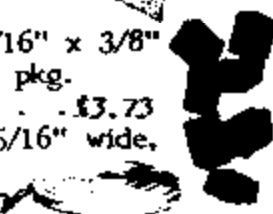


BUTT FELT SQUARES. 5/16" x 3/8" x 7/32" thick. 100 per pkg.

NO. 1319 . . . \$3.73

BUTT FELT STRIP. Red. 5/16" wide, 1/4" thick x 52" long.

NO. 1322 . . . \$5.00



PIANO SUPPLIES - FELTS

FELT WASHERS & PUNCHINGS

stock no.	color	I.D.	O.D.	thick	price per 100
NO. 1685	white	none	1/4"	1/8"	\$3.50
NO. 874	green	3/32"	5/16"	1/32"	\$3.45
NO. 873		3/32"	3/8"	1/16"	\$3.50
NO. 872	red	1/8"	3/8"	5/64"	\$11.50
NO. 875	red	3/32"	3/8"	3/32"	\$3.50
NO. 876	brown /none	3/8"	1/8"		\$8.20
NO. 1838	brown/none	7/16"	3/32"		\$7.66
NO. 877	green	3/32"	1/2"	1/8"	DISC.
NO. 871	maroon	11/16"	3/32"	1/16"	\$3.45
NO. 879	red	1/2"	7/8"	1/8"	\$10.00

10-99, each \$-10c

Butt spring punchings. Red Nylon suede cloth punchings. 11/32" dia. x .050 thick. To ease friction and wear.

No. 1590. DISCONTINUED

ADHESIVE BACKED FELT STRIPS, 1/8" thick. Dark brown. Sold by running foot.

Stock No.	Width	Price
NO. 1001	1/4"	\$1.89
NO. 1002	3/8"	\$.69
NO. 1003	1/2"	\$.83

ADHESIVE BACKED FELT-DOTS 1/8" thick. Dark brown. Per 100.

NO. 1010	1/4"	\$3.93
NO. 1011	3/8"	\$4.83

ADHESIVE BACKED FELT-DOTS 1/16" thick. Dark green. Per 100.

NO. 1020	1/4"	\$2.53
NO. 1021	3/8"	\$3.32

BULK FELT




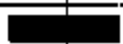

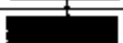




SCARLET FELT, 1/8" thick, 6" x 54". Soft.
No. 792. each \$17.25

GREEN FELT, 1/8" thick, 6" x 54". Soft. Pool-table green.
No. 793. each \$17.25

RED FELT, 3/16" thick, 6" x 72". Medium
No. 794. each \$35.64

1/2" THICK GRAY MUFFLER FELT. 8" wide. Sold by the running inch. (min. ord. 10")
No. 795. DISCONTINUED

KEYBOARD FELTS

Center Rail	Front Rail	Back Rail
white woven felt 1/2" x 1/8" I.D. x thickness below	green woven felt 3/4" x 5/32" I.D. x thickness below	green woven felt, 1-1/2" x 52" long x thickness below
 No. 1446	No. 1442	 No. 1450
 No. 1447	No. 1443	 No. 1451
 No. 436	No. 435	 No. 437
 No. 1448	No. 1444	 No. 1452
 No. 1449	No. 1445	 No. 1453
Pkg. of 100 . . . \$8.50	Pkg. of 100 . . . \$12.35	Per strip, ea. \$9.95

PAPER PUNCHINGS FOR KEYBOARD 200 per pkg. To level & 3/8" dip

CENTER RAIL, 1/2" O.D. x .010" thick. NO. 1236 PKG. \$.95



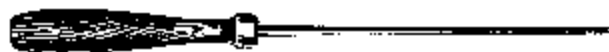
FRONT RAIL, 7/8" O.D. x .027" thick. NO. 1235 PKG. \$.95

PIANO SUPPLIES - TUNERS' TOOLS



THIN RED BUSHING CLOTH. Strip 3" x 18" This is the special woven felt found in player action bushings — around control wire slides; poppet wire guide rail; motor crank-shaft, etc. Determine width of strip needed for a particular hole by cutting a strip of paper and making a long tapered point on the end, crease center and start drawing the point through hole to be bushed. By trial and error, you can keep trimming off width until the edges meet themselves when you pull past taper. Then use this width as a pattern to make a starting cut with knife or scissors on the bushing cloth, lengthwise, and tear. Do not cut; it needs the ragged edges to mesh properly when the edges meet inside the hole. Cut taper and apply glue to bushing cloth and pull through hole. When glue is dry, a razor blade will slice off excess neatly. If it is too tight a fit, the hole can be enlarged by taking a drill-bit, oversize to the fit you are trying to make and chuck it up in an electric drill, backwards, so that the solid or shank end does the burnishing. Can also be used for key bushing.

- No. 884, .055 thick per strip \$6.76
- No. 1284, .043 thick per strip \$6.76
- No. 1484, .033 thick per strip \$6.76



BURNISHER, for holes in new bushing cloth, or when hole is too tight for center pins. This is not a reamer, as it does not remove felt. Tapered and smooth, it presses the hole larger depending on how far it is run through. All new flanges (such as No. 1330) require burnishing to make good, clean holes for inserting center pins. Burnishing surface is 3" long, graduated from .050 to .085 (3/32"). Bushing cloth No. 884 can be used on wire slide holes on gate boxes, then burnished to size.

- No. 1341 each 16.90

IVORY CEMENT. For gluing genuine piano key ivories. White in color. Bottle is immersed in boiling water and applied to key while in liquid state. Sets up fast, as soon as it cools. 2 oz. bottle.

- No. 316 each \$3.95

KEY BUSHING WEDGES. When installing new felt bushings (see Stock No.1484 for the proper felt) this wooden wedge clamps the felt until glue is dry. Reusable many times.

- No. 882 **DISCONTINUED**



TREBLE DAMPER STRIP. 1-3/8" tapered to 1-3/16", 19" long. White felt with red back.

- No. 1534 each \$14.66



- No. 1104 GANG MUTE \$13.80



TEMPERAMENT FELT STRIP 50" long x 5/8" wide

- No. 1103 each \$3.95



RUBBER TUNING MUTE WEDGE (with wire handle.) 3" x 3/8"

- No. 1101 each \$1.07



TREBLE SPLIT-END RUBBER MUTE. Flat blued steel handle. Mutes one string or two at once.

- No. 1102 each \$4.95



PIANO TUNING HAMMER. Fits all standard tuning pins.

- No. 482 each \$22.50



TUNING FORK. Standard A-440 pitch. Nickel-plated. Ball tip for best sound conduction when touched to piano case as resonator.

- No. 1100 each \$10.85

PIANO SUPPLIES - TUNERS' TOOLS



No. 838



No. 839



No. 1305

TUNING PIN TIGHTENERS

For tightening loose pins, an upright should be laid on its back to avoid waste and to soak straight down the side pins. A few drops at a time, going over the entire pin block several times will do the job in about 1 1/2 hours. Permanently fills wood cells. Also useful for swelling wood around pin bushings in piano actions to stop wobbly hammers, but should be used a little at a time, so as not to overdo it; more can be added the next day if some is still required.

No. 838 PIN-RITE (9 oz. plastic bottle) each \$15.00
 No. 839 QUIKSET (9 oz. plastic bottle) each \$10.25

CENTER PIN LUBRICANT. Not an oil. Relaxes sluggish joints on tangos by soaking felt bushing around pin, cleaning at the same time, then completely evaporates, leaving behind the slightly looser felt. Works just the opposite of No. 838 and No. 839 pin tighteners. No. 1305 14 oz. bottle each \$1.82



DISPENSER Leak-proof clear plastic. To hold center pin lubricant, oils or other liquids.

No. 1006 2 1/2" x 1 1/2" x 1 1/2" each \$3.50

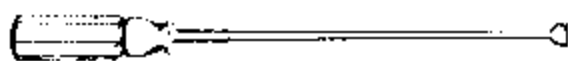


REGULATING TOOL for turning eye of regulating screw. Pockets red 5 1/2" long, natural wood finish.

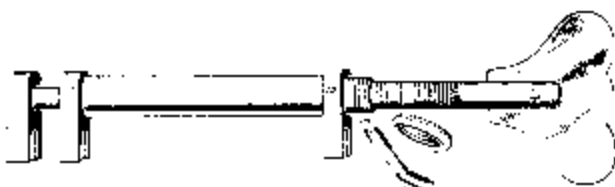
No. 1437 each \$4.00



No. 1300 Regulating tool, for clinched wire \$8.80



No. 1301 Regulating screwdriver for eyewire, 15" \$37.00



HAMMER-HEAD EXTRACTOR, with cutter.

No. 1338 each set \$48.33



HOW TO REMOVE THE GLUED SECTION OF LEAD TUBING

Some lead tubing must be replaced because it deteriorates by oxidizing from the inside out, leaving thin spots of the remaining good lead. For some reason, this most often occurs immediately above the section which is glued into the wooden channel-board. This presents a problem in removing the stub, which is quite often too weak to pull out clean. In this case, here is the best and quickest method.

Cut the old lead tubing with a sharp knife, flush with the wood. Use a common twist drill bit slightly larger than the inside diameter of the lead tubing, which will catch on the flutes as the bit is turned. By trial and error, the proper size bit may be determined. Size # 29 is usually about the right size. This will prevent this stub from disintegrating, but will still allow a tight fit as the drill bit engages. Either an electric hand drill or a pin vise may be used to spin the drill bit in. As it goes so, the water wax of the lead will be freed from the wood, as it will soon be spinning when sufficiently locked onto the drill bit. A slight upward pull will remove the stub still attached to the drill. This may be easily cut away with a knife, and you're ready to extract the next one. Since the drill bit has never touched the wood, it should leave a 3/16" hole, free of debris.

This 3/16" hole can then be enlarged to 7/32" to receive a Stock No. 351 straight reducing nipple in the center section. The end sections may have the Stock No. 351 reducing nipple glued directly into the 3/16" hole without further enlargement.

Restoring & Collecting **BOOKS** Antique Reed Organs



By Horton Presley. A step by step guide to finding, repairing, tuning and restoring these priceless organs.

RESTORING & COLLECTING ANTIQUE REED ORGANS by Horton Presley. This book was out-of-print for several years. It has been reprinted one more time. There is enough supply on hand for about another year. Not known if it will be available after that. It is the best book written on the subject, to date. 319 pages of very thorough coverage and well written. Many illustrations. Available in soft cover only.

8-85 \$21.95

THE BILLINGS ROLLOGRAPHY
Compiled & published by Bob & Ginny Billings
Vol. 1 Alphabetic & numerical lists of all Q-R-S word rolls made between 1917 and 1934.

Vol. 2 Lists all roll companies, that made Recordo rolls, numerically. Then lists with all combined alphabetically by title; also by composers (classical). Also chapters on history and technical description of the expression system variations.

Vol. 3 All roll recording artists for Q-R-S and Recordo rolls. Listing all their rolls; picture and biography, when available. Includes rolls of all pseudonyms used and who actually arranged using these names.

1174 pages. 8 1/2" x 11". wt. 7 lbs., 6 oz.

NO. D-37 set of 3 volumes . . . \$750.00



PLAYER PIANO SERVICING and REBUILDING by Arthur Reblitz. 8 1/2" x 11". Well illustrated with 216 pages including index, glossary, and tracker bar scales. Individual sections on the rebuilding of 30 of the more common foot pump player actions, as well as reproducing systems. Before this book was published eight years ago, there was not much to guide the serious rebuilder. What it takes now is a very thorough and complete restoration. This is the book that deals with modern day problems, as well as anticipating those in the future. It would not likely be read as a novel and put away. For this reason the hard back first edition should be considered.

NO. B-186 softbound edition \$79.95

Also, by same author, the companion book, "PIANO SERVICING, TUNING & REBUILDING" (see next page) which is equally well written. Bear in mind that appearance and performance of the piano will complement the excellence of the player action.

BOOKS - ON PLANOS

PIANO SERVICING, TUNING AND REBUILDING - by Art Reblitz. If you have a piano and simply want to service it yourself, this is for you. Fortunately it was written in a style that doesn't assume the reader has experience. Yet is widely used by and endorsed by piano tuners and schools that teach the trade. Amply illustrated and covering about everything you need to know. This book has become the most widely used book ever published on the subject and has become the world standard reference.

One customer wanted to restring a piano; with only this book as a guide, a perfect professional job was accomplished, so that says a lot for the book, when an amateur can pull off a feat that complicated, and tune it, without any other help. 176 pages, 8½"x11".

NO. B-54 . . . PAPERBACK . . . \$29.95
NO. B-55 . . . HARDCOVER . . . \$35.00



HOW TO TUNE A PIANO. Even if you never do tune a piano, the piano tuners' business is easily understood, and you'll be "clued in" upon reading the section, "What to look for in buying a used piano".
NO. B-1 \$7.50



PIANO ATLAS. Published by Bob Pierce. The one and only reference book for looking up the serial numbers of pianos to find out the date made.
NO. D-5 \$39.50

THE AMPICO MODEL B. An illustrated rebuilding guide. Up-to-date, 100 page book written by David Saul, sharing his technical notes and procedures on restoration of the model B components. 8½"x11".
NO. D-3 \$25.00



PLAYER ACTION IDENTIFICATION. Over 800 player pianos matched to 50 types of player actions, all illustrated or described for purpose of identifying. This reprint also contains all technical information that appeared in the Player Piano Co. catalogs for the past 20 years. Has step by step rebuilding instructions for the following player stacks: old style AMPHION, glued type GULBRANSEN, SCHULZ and SIMPLEX. 8½"x11" spiral bound. 56 pages.
NO. D-35 \$8.50

PIANOS AND THEIR MAKERS by Alfred Dolge. Reprint of a 1911 book. One chapter on players, but mostly history of the development of the piano action and the lives of the early pioneers. Over 450 pages. Paperback.
NO. D-11 \$13.50

TIP ON

REED ORGAN

PALLET VALVE REPLACEMENT

To avoid depressions caused by the wooden key rod pressing on the no. 1752 sponge neoprene, you may avoid the eventual uneven keyboard by plugging this pressure point with a hard felt, stock no. 1685.

This is done in the following manner. After pallet valves are back in place, the exact point to plug can be located by dusting a dab of white typewriter correction fluid on the end of one of the key dowels and inserting it through the guide holes to make a white spot on the sponge.

To cut the plug use a stock no. 191 tube punch, sharpened to a razor sharp cutting edge. Twist this over the white spot, cutting against the wooden pallet. Remove this plug and replace with no. 1685 felt punching of the same size. There is no real necessity to glue it. It is advisable to do one at a time to avoid mix-up.

AUTOMUSICA

PNEUMATICS HANDBOOK & Orchestration Builder's Manual. By Craig Brougher. 8½"x11", 238 pages.

In any type of player action rebuilding or modification, there is necessarily a lot of improvising that you will be faced with. This is simply because new components are usually not available, such as the auto mechanic may find in an off the shelf remanufactured water pump or alternator. The player mechanic is actually faced with rebuilding the wind motor or governor and facing decisions on what to use and how to check it before use.

There is not a separate set of rebuilding instructions for each rebuilding operation, nor a list of materials needed. What you need is a set of rules for testing available parts to see if they will work correctly. You need to know the objective as well as what not to do.

This handbook will tell you. For example, here are a few "headers" plucked out of the book:

- Aspects of a fast, efficient valve*
- Sensitivity proportional to bleed size*
- Optimizing the pouch to stem distance*
- Mounting lifter discs*
- Valve customizing*
- Factors which will change valve speed*
- Typical mandolin rail problems*
- Sealing wood and leather*
- Uses for shellac*
- Using hide glue*
- Selecting leather*
- The water gauge / The bubble jar*
- Measuring for the ideal valve gap*
- Hardening wood screw holes*
- Vacuum spill design*
- Preventing valve seat corrosion*
- Providing for future accessibility*
- Correcting warpage*

Craig Brougher's handbook is a "MUST HAVE" reference manual. The basic restoration book is still "Player Piano Servicing & Rebuilding" by Art Reblitz.

The Brougher book takes off where the basic book ends. However, it is unique in the way it goes into the philosophy and understanding of the various pneumatic systems.

The purpose of writing this book was not to duplicate coverage in the Reblitz book. It adds to the coverage and goes into the complete technology of the more complex automatic control systems, such as lock and cancel control over auxiliary instruments. It deals with the various vacuum and pressure regulation and controls needed for building complex orchestrions.

D-38 SOFTBOUND \$5.95
D-39 UNBOUND for 3-ring binder \$7.95

VESTAL PRESS RESOURCE CATALOG. 8½"x11", 80 pages. Lists books, music recordings, services, and other items that are sold by various sources. This is in line with the previous categories of interest that were stocked by Vestal Press: Player piano, reed organs, juke box, phonograph, slot machines, theatre organs, amusement parks, carousel, circus, film, entertainment history, post card, ragtime, Coke & collectibles, radios.

If Vestal Press does not stock a book or reprint, it gives you the price and ordering information to obtain it from the distributor or publisher.

A-118 \$5.00

1926 BUYERS' GUIDE. Reprint by Frank Adams. Very useful for doing research on origin of the many varieties of player pianos which were manufactured up to this date. As you read, you learn exactly what manufacturers were behind the long list of player brands. For someone frequently involved with players, it is a clue to what you are getting into, when hearing names of instruments you never heard of. (as often is the case) The mystery is solved when you can easily relate to the same family of pianos that you have already had experience with. Even to the beginner, the pieces quickly fall in place. If you have ever wondered what is behind the name, this book probably covers it. If you know a little — you'll know a lot after browsing through and feel the price of this book soon gained in knowledge. 88 pages, 9" x 11½". Now limited supply left of this reprint.

No. R-64 \$1.95

REPRINTS

AMPICO (cont'd)

AMPICO COLLECTION OF SERVICE REPRINTS. Includes all service information on both A & B models that have been sold separately (Except T-3 & D-3). Additional information has been added. These are all 8½"x11" spiral bound format, and are copies made directly from the original service manuals, rather than reduced-size versions.

D-36 \$30.00

AMPICO FOOT-PUMP model. Reproduced from a 1920 blueprint.

R-24 \$4.00

AMPICO MAGAZINE, Jan., 1928, 24 pages, 5½"x8½".

R-5 \$2.50

ANGELUS

ANGELUS SERVICE MANUAL. Shows pouch-pneumatic type and also describes the later White player action.

NO. B-62 \$4.75

ANGELUS REPRODUCING PIANO. Service manual showing the Simplex version of the Artrio reproducing system. Same basic parts as shown in No. B-35 reprint, but plays Artrio-Angelus recordings rather than Recordo rolls.

C-18 \$2.25

THE ARTRIO-ANGELUS REPRODUCING PIANO. Upright model only, with the Angelus pouch-pneumatic stack.

C-19 \$2.25

ANGELUS. "Artistic Piano Playing by Means of the Angelus". To show the owner how to use the various expression devices, how to obtain excellent musical results from the player, etc. If you have an Angelus 65, or 88 note or combination, you will need this. 23 pages. 4"x7½".

R-107 \$2.00

ART-APOLLO

ART-APOLLO TUBING DIAGRAM.

NO. B-83 \$2.00

DYNACHORD SERVICE MANUAL. Refer to p. 306 *Player Piano Treasury*. This was an expression system built by Amphion. Although its tracker bar has 98 ports, it follows the same 96-hole system employed by Melville Clark's ART-APOLLO. 8 pages, 12" x 20".

NO. B-80 \$1.00

ARTECHO (APOLLO)

ARTECHO (Apollo) upright service and regulation sheet. To identify ARTECHO: count tracker bar holes. There are a total of 100, with only one elongated—the fourth one from the left.

NO. C-14 \$2.25

ARTECHO (Apollo) Grand service and regulation sheet.

No. C-15 \$2.25

AUTOPIANO

PLAYER PIANO POINTERS

Autopiano player action
NO. B-3 \$5.00



AUTOPIANO. 1910 service manual reprint showing combination 88 and 65 note tracker bar.

NO. B-42 \$5.00

BALDWIN

BALDWIN SERVICE MANUAL. Over 100 pages of technical information and drawings. This has to be the most extensive service manual ever issued by any player manufacturer. Although it came out in 1916, there were very few changes made during the entire production run of Baldwin player actions from 1912 through 1928. They were used exclusively in all Baldwin pedal-pump players: Ellington, Hamilton, Howard, Modello, Monarch and Manualo.

B-50 \$10.00

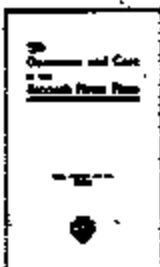


REPRINTS

BECKWITH

BECKWITH SERVICE MANUAL.
Reprint on player action.
20 pages, 5-1/2"x8-1/2".

B-81 \$5.00



BUSH & LANE CECILIAN

BUSH & LANE SERVICE MANUAL for
Cecilian player action using all metal
construction of unit valve. 28 pages,
8-1/2" x 11". 17 PAGES

No. B-82 \$7.00

A. B. CHASE

SERVICE MANUAL & parts list for A.B.
CHASE player action.

B-56 \$2.50

COINOLA

COINOLA CATALOG picturing and des-
cribing ten coin-operated pianos.

A-271 \$5.00

COINOLA, 18"x24" advertising poster
showing the "orchestric cabinet"
which was rolled in front of an
ordinary piano to utilize the keyboard.

A-151 \$3.00

DEGAN

CATALOG OF DEGAN ELECTRICAL
MUSICAL INSTRUMENTS, showing the
famous UNAPHONE as well as the
OCTAPHONE, which was loud enough to
be heard (under favorable conditions)
a mile away, so this catalog claims.

A-92 . . . 60 pages. . . \$1.75

DUO-ART

DUO-ART. Technical instruction on how
to rebuild.

No. T-5 \$5.00

DUO-ART COLLECTION OF SERVICE RE-
PRINTS. Spiral bound. Includes C-3, C-
7, and others.

No. D-34 \$20.00

DUO-ART (cont'd)

DUO-ART GRAND TUBING SCHEMATIC.

No. C-7 \$1.50

DUO-ART 1927 SERVICE MANUAL. Covers
both upright and grand. Duo-Art can
be distinguished from other types by
looking at the tracker bar. Above the
normal row, there are four holes above
on each side.

No. C-3 \$5.00

DUO-ART combination foot impelled
and electric Duo-Art expression box.
(supplement to reg. service manual
noting differences).

D-24 \$.75

DUO-ART Service manual No. 1, titled,
"Duo-Art Preliminary Instruction
Pamphlet." Contains information not in
the later 1925 or 1927 service
manuals. 14 pages, 8 1/2"x11" Spiral
bound. Incl. 3 tubing diagrams.

R-32 \$10.00

DUO-ART TUBING SCHEMATIC for upright
model between 1913 and 1918. 22"x24"

R-29 \$5.00

DUO-ART - "How to Play the Electric
Duo-Art" Tells how to use the various
levers in the keyslip and spoolbox. How
to play 88 note rolls with expression.
How to play Themodist rolls and other
information. 16 pages, 4 1/2"x6".

R-30 \$2.50

ROLL CATALOG. 1927 Duo-Art
Audiographic with two additional 4
page Audiographic bulletins. 61 pages,
8 1/2"x11"

R-31 ~~DISCONTINUED~~

DUO-ART PRICE CARD with retail prices
for all players using the Duo-Art. 1924

C-10. \$.50

ENCORE

SERVICE MANUAL FOR ENCORE BANJO.

B-52 \$4.00

REPRINTS

FLEXITONE

FLEXITONE SOLOIST PLAYER. This essentially describes the hand operated expression system for playing 88 note rolls. It has the hammer-lift divided into three sections instead of the normal two. 16 pages, 5-3/4" x 8".
R-35 \$3.00

FOTOPLAYER

AMERICAN FOTOPLAYER CATALOG
Shows styles 20 through 50.
A-4 \$6.00



GULBRANSEN

GULBRANSEN SERVICE MANUAL (Glued type stack). Shows the automatic tracking device and adjustments of the friction wheel. Diagrams and pages of suggestions for general troubleshooting.
NO. B-38 \$5.00

GULBRANSEN SHOP CHART. Parts list, adjustments and suggestions.
NO. B-21 ~~DISCONTINUED~~

"Fish pole" type tracking device, as used exclusively in some late Gulbransen player actions. A single page, 9"x12" laminated in plastic. Orig. issued Oct., 1921.
R-99 \$1.00

HAMMOND

AEOLIAN-HAMMOND PLAYER ORGAN service manual with tubing schematic and a partial list of music rolls. 20 pages. 8 1/2"x11". Spiral bound.
R-302 \$12.50

HAMMOND ORGAN PLAYER complete tubing diagram. 17 1/2"x19 1/2".
R-101 \$3.50

HARDMAN

Hardman PLAYOTONE and AUTOTONE player action. Copy of shop chart. 25" x 38".
NO. J-4 \$3.85

JANSSEN

JANSSEN PLAYER with Welte-Mignon player action, service manual for model WM-1 Pertains to player made in the 1960's, with no connection with Welte-Mignon—the reproducing system. 24 pg.
NO. J-1 \$5.50

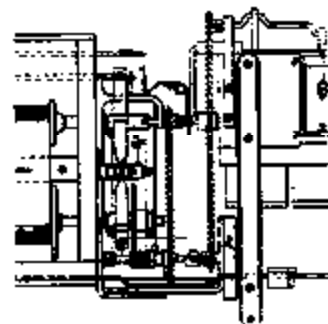
JANSSEN PLAYER with Welte-Mignon player action, service manual for Model WM-11. Same as No. J-1, but later model (with controls at left side of spool box). 13 pages.
NO. J-2 \$4.50

KOHLER & CAMPBELL

KOHLER & CAMPBELL player made in the 1960's, called "The Autopiano". Factory service manual reprinted. 23 pages.
NO. J-5 \$5.75

KIMBALL

KIMBALL SERVICE MANUAL, 1915 mod. This model has the vents accessible for cleaning by removing individual screw plugs which are in one row immediately below the spool box shelf. The roll motor governor is mounted under the key bed to the right of the foot pump bellows. The drive sprocket on the roll transmission frame is at bottom.
NO. B-53 \$9.50



LESTER

NO. B-34 **LESTER** Service manual \$1.00

REPRINTS

LINK

LINK PIANO SERVICE INSTRUCTIONS.
B-10 \$1.50

MILLS

MILLS VIOLANO VIRTUOSO SERVICE
MANUAL. 29 pages, including parts list
and tuning chart for the earlier model.
NO. B-69 \$4.00

THE ELECTRICAL MASTERY OF MUSIC.
The Mills Novelty Co. went all out in
this 36 page advertising book to show
their complete line of musical
instruments. Some were shown that
were never made, but might have been
if this exposure had generated enough
interest; these were the automatic
Cello and the Viol-Xylophone.
A-9 \$10.00

THE STORY of the VIOLANO VIRTUOSO.
31 pages, showing factory scenes and
the latest achievement—four violins
played from a keyboard—the Mills
Melody Violins.
A-6 \$7.00

SALESMAN'S MANUAL FOR THE VIOLANO.
Mills made up this guide for initially
setting up and adjusting after it
arrived at its final destination.
B-32 \$6.00

ORIGINAL VIOLANO WIRING DIAGRAM.
B-97 \$2.50

MILLS NOVELTY CO., Printed one side
10½"x15" cardstock. Showing pictures
of the Mills Violano and the "new"
Electric Piano. From Sept. 15, 1923 The
Music Trade Review.
R-309 \$1.00

Miscellaneous

JOKE SCRIPT FOR VOCALSTYLE HOME
MINSTREL Series No. 2 (Same as
supplied with Q-R-S XP-169 reissue).
A-106 \$.35

Miscellaneous

POSTER SPECIAL. Grouped together are
four approx. 17"x22" advertising
posters put out by Wurlitzer, Seeburg,
and Tangley Calliopes picturing their
instruments. (Two of the Tangley
broadside are included in the package,
since it was printed on both sides).
[These were formerly Vestal Press stock
nos. A-109, A-75, and A-205].

D-2 \$5.00

CHRISTENSEN'S RAG-TIME Instruction
Book for Piano. 35 pages, spiral bound,
8½"x11". Sheet music for "Old Black
Joe" & "Mendelssohn's Wedding March"
and other examples, played in ragtime
syncopation. Exercises and explanation
of method. Reprinted from 1915 edition
R-317 ~~DISCONTINUED~~

SIGN. 5½"x8½" printed on cardstock.
Simply says—"Thank You Not Necess-
ary. You May Smoke Here."
R-310 50¢

PUSH-UP PIANOLA. A 12-page, 5½"x7½"
booklet entitled, "How to Play the
Piano with the Pianola". Orig. printing
in 1903
R-106 \$3.00

Suitable for framing. 10"x12" laminated
in non-glare plastic sheeting.
Advertisement of small paper roll crank
organ, the McTammany "Organette".
R-100 \$2.50

PEERLESS

PEERLESS PLAYER PIANO ACTION

This 1922 Peerless player action is
really rare, and you'll need this book
when you find one! 30 pages, slick
paper, 4½"x6½" size. Well illustrated.
[note—no connection with the Peerless
name in coin-operated pianos.]

R-110 \$3.50

PIANINO

(See Wurlitzer)



REPRINTS

PIANOTIST

THE PIANOTIST. This player piano patented in the 1880's was probably the first one made that played a paper roll. The holes in the heavy paper actuated a mechanical lever for each note. Actually, a very clever idea, involving no vacuum. In fact, it was the same principle as used in the first I.B.M. electric typewriters in the 1930's, pulling the type bar instead of the piano hammer action. All this from a shoe skipping across a long spinning roller in the bottom of the piano which was powered with the foot treadles or an electric motor.

B-31 \$1.00

PRATT-READ

PRATT-READ Model P Reproducer (Recordo). 1920's blueprint and manual (12 pages 8½"x5½"). (same as old B-76)
NO. D-23 \$3.50

PRATT-READ Model PC combination style 72 foot-pump and electric with Recordo expression.
NO. B-4 \$4.50

PRATT-READ Model B player action with the single valve action and four-point, up-side down roll motor.
NO. B-58 \$3.00

PRATT-READ SERVICE MANUAL showing style 32 with single valve action and the six-point double pneumatic roll motor, and the elevated pneumatics with no poppet wires (2-tier stack). Also shows model A with ten-point motor and the self-centering pneumatic which moves the roll flanges.
NO. B-59 \$3.00

BOTH ABOVE SERVICE MANUALS, printed "double-decker", B-58 and B-59 together. 9"x14", 24 pages, plus one additional insert page showing the pneumatic tracking device which had the traveling tracking ports in the tracker bar.
NO. B-60 \$4.40



WURLITZER GRAND with APOLLO. Tubing diagram. 17" x 22".

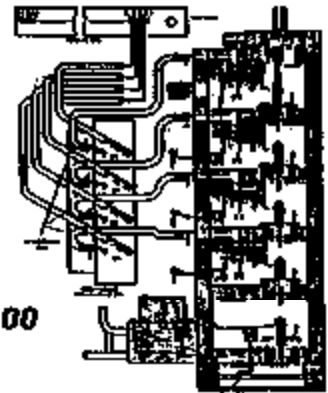
NO. D-25 \$2.75

RECORDO BLUEPRINT (Motor Player Corporation).

NO. B-22 \$1.50

ELECTORA service sheet. This was the turbine vacuum motor used by Motor Player Corp. in their RECORDO kit. Two "black boxes"—one to house this motor, packed in sawdust for silencing, and the other to spill the vacuum to reach the expression level coded on the RECORDO music rolls. This single sheet tells where to oil and when to replace brushes, and other maintenance information. Sheet unfolded is 6"x15".
R-66 \$1.50

ARISTONE expression box for RECORDO. Instr. on how to regulate. (one sheet).



B-57 \$5.00



Tubing schematic for RECORDO expression made by Starr Piano Co.

B-77 \$2.00

REPRINTS

RECORDO

ARIA-DIVINA TUBING SCHEMATIC, for type "C" RECORDO electric grand made by SCHULZ.

NO. D-7 \$2.50

CABLE REPRODUCING (RECORDO style "B"). A Combination foot-pump and motor driven rotary pump. 1927 vintage. 28 pages.

NO. B-33 \$4.50

RECORDO. Auto-Pneumatic Action Co. 1926. Upright and grand models described. 8 pages, 7½"x10"

R-62 \$4.00

RECORDO EXPRESSION BOX FOR GRAND (Made by Simplex). Same information covered in B-35 reprint, but more detailed on this one aspect.

B-26 \$3.00

SIMPLEX GRAND RECORDO expression drawer. Player stack, and expression components are all contained in the drawer.

B-35 \$4.50

REPRODUKO

REPRODUKO Instructions & Parts List.

B-11 \$2.00

Roll Catalogs

ROLL CATALOG. AMPICO, 1916, 72 pages. 7"x8½". The first known catalog of AMPICO rolls. Listed by title, composer and recording artist with photo. Orig. printing quality.

R-1 \$12.50

ROLL CATALOGS, AMPICO, 1920 & 1922 plus 1925 & 1927 supplements 6"x9"

R-2 hardbound **DISCONTINUED**

ROLL BULLETIN, AMPICO, July, 1922. 16 pages, 6"x8½"

R-3 \$3.00

Roll Catalogs

ROLL BULLETIN, AMPICO, Oct., 1919

R-11 \$3.50

ROLL BULLETINS, AMPICO. 12 combined. Aug., 1928 thru July, 1929. 76 pages, 8½"x11". Much information about the recordings, composers, etc., that are not available from any other source.

R-23 \$14.50

ROLL BULLETINS, AMPICO. Seven separate fold-out type postcard format from the late 1930's. Lists the rare rolls from this era.

R-27 \$3.00

AMPICO FAVORITE FIFTY roll brochure. 8 pages. 5"x8".

R-316 \$1.00

1940 AMPICO ROLL CATALOG, 64 pages.

C-26 **DISCONTINUED**

ROLL CATALOG. Aeolian Grand, 58 rote rolls for the Orchestrelle. Oct. 1921. 42 pages. 5"x7½".

R-74 \$5.00

ROLL CATALOG. Aeolian Pipe Organ. Listed alphabetically. Also special section in back of catalog listing rolls that sound particularly well on the large Aeolian pipe organs that contain either the harp or chimes, or both. 40 pages. 5½"x7½".

R-78 \$3.50

ROLL CATALOG, DUO-ART 1930 supplement to 1927, bringing up-to-date with pictures and biographies of new artists. 112 pages, 8½"x11". Hardbound.

R-37 **DISCONTINUED**

DUO-ART Home Musicales brochures. (Nos. 1, 4 & 6) These are prepared programs, so they could be handed out at a home Duo-Art recital.

R-44 \$2.50

REPRINTS

Roll Catalogs

ROLL CATALOG, AEOLIAN OF LONDON, July, 1932. Titles cross-referenced with stock numbers for Duo-Art, 88 note, and 65 note version. There were 350 65-note rolls still available then. This was the last catalog issued; only monthly bulletins thereafter. 184 pages, 7"x10". Hardbound

R-38 \$5.00

THE DUO-ART BOOK OF MUSIC. A breakdown by types: nationality, dance form, marches, etudes, rhapsodies, suites, sonatas, opera, vocal or instrumental accompaniment. Also composers list. 88 pages, 5½"x8½".

R-39 *Discontinued*

ROLL BULLETIN, DUO-ART, May 1916. It lists all rolls added to 1915 catalog. (R-49) 16 pages, 5"x6½".

R-40 \$2.50

ROLL BULLETINS, DUO-ART. Set of eleven, all issued between 1931 and 1934. Much information on these rare, late issued bulletins. All reprinted identical to original.

R-41 \$9.50

DUO-ART numerical roll catalog, Oct., 1921. 27 pages. 6½"x9½".

R-46 \$3.50

DUO-ART ROLL CATALOG, 1915. 82 pages. 6"x9". Detailed descr. of all rolls.

R-49 \$12.50

ROLL CATALOG of 58 note music for Angelus Symphony. July, 1906. 16 pages, 4¼"x5½".

R-312 50¢

ROLL BULLETIN of 65 note music for Angelus and Melodant-Artistyle. Dec., 1909, 6 pages, 5"x6-¾".

R-313 50¢

same as above, but dated 1908.

R-314 *Discontinued*

Roll Catalogs

PICTUROLL CATALOG, 1918. These music rolls would play on the standard home player as well as some photoplayers. The catalog lists composites of silent movie mood music. The unique feature of these rolls was the special chain-bridging of the perforations which would play a note on the organ, but pass silently over the regular piano note holes on a special tracker bar to separate piano and organ. Yet on a standard tracker bar, all notes would play on piano. The Filmusic Co. was located in Los Angeles and also produced POP brand of rolls for the home player. It was a very small specialty roll company with a staff of one arranger, Vern Elliott, who was still around to do all the roll arrangements in the 1960's that were used on Aeolian rolls, before J. Lawrence Cook left QRS and took over the job.

A-38 \$3.00

ROLL BULLETIN. PIANOLA MUSIC ROLLS. Jan., 1917. Metrostyle-Themodist, Metro-Art, and song rolls, both 88 and 65 note. Lists 8 rolls played by Geo. Gershwin. 16 pages, 3½"x6".

R-315 50¢

Q-R-S monthly bulletin. March, 1918, 8 pages, 3½"x6". Prices then were .50¢ to \$1.00.

R-311 50¢

ROLL BULLETINS, WELTE-MIGNON. June, 1929, 14 pages. 6"x8½", list all rolls added since 1927 catalog. Another bulletin, May, 1931, much smaller, was the last one issued and includes the last popular rolls issued.

R-50 \$3.00

REPRINTS

Roll Perforating Machines

MUSIC ROLL MACHINERY. 4 pages of clear retouched illustrations of Acme roll perforating machines.

A-16 \$6.00

1920 CATALOG OF LEABARJAN piano roll perforating machines, including electric model which produces 16 at a time.

A-113 \$6.00

SCHULZ

(Also see Aria-Divina under Recordol)

SCHULZ SERVICE MANUAL. 1915 edition. Shows "swinging block" tracking device
NO. B-61 \$3.50

SCHULZ SERVICE MANUAL. 1922 edition. Shows automatic roll-centering device having discs which ride inside of roll flanges.

NO. B-29 \$3.50

SEEBURG

SEEBURG Owner's Instructions. 7 pages briefly covering maintenance of keyboard nickelodeons and original price list for parts. Style A or B.

NO. B-2 \$1.50

THE SOUL of the FILM. Seeburg photo-player catalog.

A-25 \$6.00

SEEBURG SNARE DRUM BEATER

Building plan for one exactly like the ones used on Seeburg Orchestrions.

NO. T-13 \$6.00



SIMPLEX

SIMPLEX FLYER. 8½"x11" advertising Flyer issued sometime in the 1920's.

R-43 . . . 4 pages . . \$1.00

SIMPLEX

SIMPLEX PLAYER ACTION MANUAL -If your player has the famous Simplex "TRAPEZOID" tracker bar, this booklet will be helpful in servicing.

NO. B-8 \$6.00



SIMPLEX STACK DRAWING showing modification to add extra instrument vacuum lines in a custom-made orchestration.

NO. D-14 \$3.00

THE SIMPLEX AUTOMATIC TRACKER. Description on the mechanical roll tracking device. Four page, 9" x 12" reprint showing explanation and adjustment.

NO. D-18 \$3.00

STANDARD ACTION



STANDARD ACTION SERVICE MANUAL (Principals of Player Action Operation). There were 140 different brands of pianos which used this, the most common player action. It can be identified by the "S" on the patent plate or pedal mats; also gear attached to the right take-up spool flange.

NO. B-12 \$4.50

QUESTIONS AND ANSWERS (Standard action). A total of 213 questions like: No. 179—How is the secondary valve button adjusted to the pouch—what distance do you allow between the pouch and button?" Answers are below each question.

NO. B-18 \$3.50



REPRINTS

STANDARD ACTION

STANDARD ACTION SERVICE MANUAL. This is the third edition of "Principles of Player Action Operation." Printed in 1925. The coverage is very similar to the 1922 reprint #B-12, but it has been completely revised with new typesetting, although some of the same illustrations. This copy is just better printing and paper quality used on this reprint. 47 pages. 6-3/4"x9-3/4".

R-75 **DISCONTINUED**

FACTORY TOUR, STANDARD PNEUMATIC ACTION CO. A reprint from a 1915 trade magazine giving some interesting information and pictures of the many factory scenes involved with the making of the Standard player action.

NO. A-302 \$5.00

STARR

STARR SERVICE MANUAL. Reprint of 1923, type A-1, with fifteen 8 1/2"x11" pages.

NO. D-20 \$5.45

STORY & CLARK

STORY & CLARK SERVICE MANUAL. 1924 reprint. Forty pages, 7 1/2"x7 1/2".

NO. B-49 \$7.50

MORE ENGLISH PIANOLA REPRINTS. Set of three instruction booklets on how to operate. 1. Metrostyle Themodist pumper. 2. Duo-Art foot pumper. 3. Combination foot-pump and electric Duo-Art. Each booklet is 5"x8 1/2". 20 pages in all three plus covers.

R-149 \$3.50

THE AEOLIAN ORCHESTRELLE, The Solo Orchestrelle and the Aeolian Organ. Composite booklet from various rare brochures and ads. Printed on 100 lb. enamel stock. Pictures 7 models on the Orchestrelle with stops and specs. 24 pages. 8"x12".

R-307 \$8.50

WELTE

WELTE MIGNON TUBING SCHEMATIC for both grand and upright. This is the "Licensee" version—the most common type of Welte-Mignon. Can be distinguished from other reproducing pianos by the tracker bar: All openings are the same size and have a pair of staggered tracking holes to read the edges of the music roll. Aside from these tracking holes, the regular line of ports will total 98.

NO. C-8 \$2.00

WELTE "ORIGINAL" Service Manual. Upright and grand. 24 pages. Different from the Kohler & Campbell built "Licensee" by Autopiano. This player action uses the standard 11-1/4" wide Welte-Mignon music roll, but construction of the mechanism was different and was built in Poughkeepsie, N.Y. To distinguish from the Licensee version—it should have have a chain pulling over a roller on one of the expression pneumatics.

NO. C-20 \$5.00

WELTE-MIGNON Test roll instr. for the 13+ inches wide "red paper" roll. A companion booklet covering installation and set-up maintenance. 4 1/2"x5 1/2".

R-57 \$5.00

WELTE=WORSETZER. 24 pages. 4 1/2"x5 1/2". All printed in German. This is some kind of manual for the "red paper" roll push-up player. However there are two clear photos; front and rear view of the mechanism.

R-58 \$2.00

WELTE-MIGNON (Licensee) tubing blue-prints. 20"x25". Upright and grand.

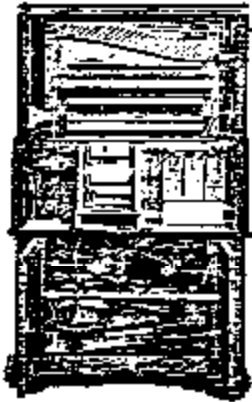
NO. C-4 . . . pair . . . \$5.00

WELTE-MIGNON reprint of original service manual. (48 pages, 5"x7") Includes instructions for test roll. [Licensee reproducing piano].

D-4 \$4.00

REPRINTS

WURLITZER



WURLITZER PIANINO SERVICE MANUAL.
This is for the early model with wooden spoolbox.

B-30 \$3.00

WURLITZER 125 BAND ORGAN TRACKER BAR SCALE.

B-46 *DISCONTINUED*

WURLITZER 150 BAND ORGAN TRACKER BAR SCALE.

B-47 *DISCONTINUED*

WURLITZER 165 BAND ORGAN TRACKER SCALE (Blueprint revised in 1942)

B-9 *DISCONTINUED*

WURLITZER DUPLEX ROLL SYSTEM OF STYLES G & O photoplayers using the double ten tune spool frame. Also complete original parts numbers list.

NO. B-37 \$5.00

WURLITZER long roll tracker frame. Care and use. 16 pages.

NO. B-36 \$6.00

WURLITZER MUSIC for THEATRES. showing all types of photoplayers with duplex spoolframe.

A-3 \$6.00

WURLITZER ROLL CHANGER

B-13 \$7.00

WURLITZER BELL-BEATER DRAWINGS. Complete set of engeneering drawings from which you can construct the same assembly used on Wurlitzer 146 or 153 band organs.

NO. T-4 \$4.00

JUKE BOX

WURLITZER JUKEBOXES 1934 to 1974. Compiled by Frank Adams. 8½"x11", 246 pages, spiral bound.

NO. D-30 *DISCONTINUED*

SEEBURG JUKEBOXES 1928 to 1987. Compiled by Frank Adams. 8½"x11", 138 pages, spiral bound.

NO. D-31 *DISCONTINUED*

ROCK-OLA JUKEBOXES 1935 to 1987. Compiled by Frank Adams. 8½"x11", 170 pages, spiral bound.

NO. D-32 *DISCONTINUED*

VESTAL PRESS

TECHNICAL SERIES

The following series is in the form of sheets for a 3-ring binder. Recently written by knowledgeable people in the business to assist those that wish to duplicate an original part or correctly rebuild.

T-14 3-RING BINDER ONLY \$3.75

T-1 COINOLA SPOOL FRAME.

Drawings, complete with all parts and measurements, so that an exact copy can be made. Coinola style X used to make drawings.

T-1 \$5.00

T-2 SEEBURG REWIND-REPLAY gear shifting pneumatic (lock & cancel type valves).

T-2 \$2.50

T-3 HOW TO REBUILD THE MODEL A AMPICO. (12 pages).

T-3 \$5.00

T-4 WURLITZER BELL UNIT for band organ.

T-4 \$4.00

T-5 REBUILDING THE DUO-ART reproducing piano mechanism. (19 pages).

T-5 \$5.00

continued on next page

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VESTAL PRESS
TECHNICAL SERIES

T-6 WURLITZER SNARE DRUM PNEUMATIC.
T-6 \$4.00

T-7 COINOLA FLUTE PIPES & CHEST.
T-7 \$4.00

T-8 LINK REITERATING XYLOPHONE
PNEUMATIC.
T-8 \$3.00

T-9 DUO-ART LOGIC CHART. For those
that want to see the vacuum system
laid out like an electronics schematic.
T-9 \$3.00

T-10 MANDOLIN DEVICE for upright.
T-10 \$5.00

T-11 Kelly lock & cancel. Many
orchestration rolls use one hole to lock
an instrument on and another to
cancel. Here are the complete building
plans for building a simple component
to carry out this function. (Or see
PPCo. stock no. 934, which is a ready-
made unit of another design).
T-11 \$6.50

T-12 SEEBURG PNEUMATIC STACK.
Complete building drawings for late
model with glued on atmosphere valve
washers.
T-12 \$8.50

T-13 SEEBURG SNARE DRUM BEATER.
T-13 \$6.00

T-15 WURLITZER UNIT VALVE BLOCK.
Also shows plans for building a unit
with same to replace the die-cast 4-
in-1 type valve unit in a lock & cancel
T-15 \$5.95

T-16 HOW TO MODIFY ACCORDIONS for
use in automatic instruments.
T-16 \$7.00

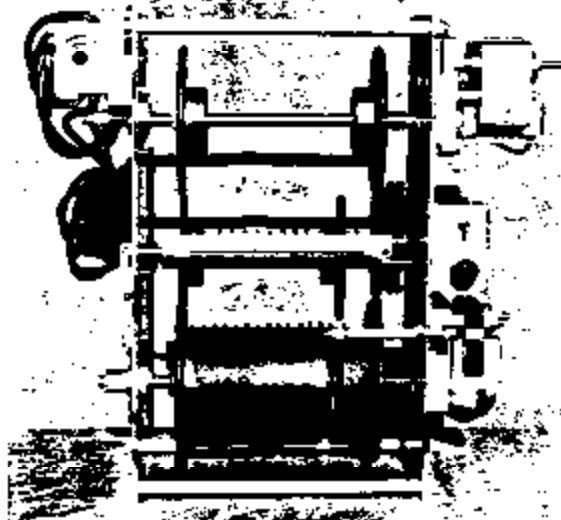
T-17 COINOLA ROTARY PUMP.
T-17 \$5.00

T-18 WELTE-MIGNON (licensee)
INSTRUCTIONS FOR USING THE
TEST ROLL and how to regulate.
Written by Craig Brouger. Five pages.
T-18 \$2.00

"PERFORATED PAPER PATTERN" by Palmer
Mal. This booklet, 63 pages -- double-
spaced pica typed, and 3 pages of roll
repairing illustrations, was written for
the benefit of his fellow-collectors that
they could share in his appreciation
for collecting and caring for their old
rolls.

Various chapters are: "Where and How
to Find Rolls." "How to Determine Roll
Condition." "What to Pay." "Roll
maintenance and Repair Tips." (Revised
1988 edition).
A-164 \$5.50

MADE-TO-ORDER
FOR
ANY TYPE ROLL



CUSTOM-MADE SPOOL FRAME for 10
tune music rolls. The example illustra-
ted plays Wurlitzer PIANINO rolls.
However, tracker bar and roll chuck can
be fitted to play any type. Take
advantage of the availability of recuts,
or perhaps you have a hoard of odd
style music rolls and want to build up
your own instrument to make use of
These will all be with variable speed
play motor and automatic repeat.

Delivery time is up to ten months and
price is from \$790.00; Write for quote.

STOCK NO. 2100 CUSTOM SPOOL FRAME

MISCELLANEOUS

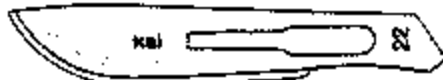
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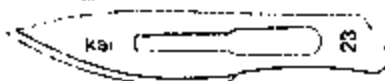
SCALPEL HANDLE, #4 size. Comes with 3 blades. Used without the blade, this makes the perfect tool for burnishing the I.D. of lead tubing [see No. 21 lead tubing on page 7] to start over the end of the brass tracker bar nipple.

NO. 490 per set **DISCONTINUED**

No. 492

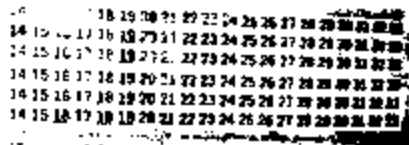


No. 493



CUTTING BLADES for above handle. The small pointed blade is handy for many delicate cutting operations, such as when you cover a bellows and cover over a screw hole. Before the glue has set, you can cut out the small plug of cloth and glue.

NO. 492 package of 5 blades **DISC.**
NO. 493 package of 5 blades **DISC.**



NUMBERED ADHESIVE TAPE. Numbers from 1 to 99. Six of each number. Can be cut with sissors to make 1/4" high x 9/32" square with single numbers, or can be peeled off in two strips of three connecting identical numbers to wrap around tube.

NO. 27 \$10.35

CANVAS BELTING, 3/16" thick, 1-1/4" wide. For making connecting straps in rotary pumps. Sold by the running inch, any length.

NO. 1459 per inch 28¢

MOTOR-TO-PUMP BELT for Welte, Duo-Art or AMPICO; possibly others. 62" long. 1/2" tapered to 5/16", 5/16" thick. Canvas impregnated with neoprene. (Measure requirements carefully; there are some variations.)

NO. 557 \$19.25

SELECTOR SWITCH & SPEED CONTROL REPLACEMENT for suction box kits.

NO. 1654 for #650

NO. 1655 for #655

(as used in No. 2800)

Either. \$123.80

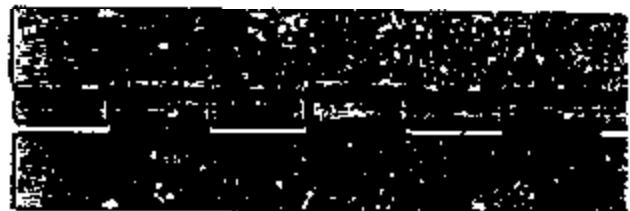


BRUSH for VACUUM MOTOR. For the armature; takes two. Fits stock nos. 550, 554, 650, and 655.

NO. 657 each \$4.00

LIGHT BULB HOLDER. Standard socket with lead wires and metal extension strip at right angle to base for easy mounting where space is limited.

NO. 549 each \$.90



Continuous strip hinge for piano lids. 6 ft. long. Screwholes not drilled. Made of stainless steel. (Must be shipped in cardboard tube separately. Postage is approx. \$3.00 for one or three).

NO. 29 one ea. \$5.00
two, ea. 4.00
three or more, ea. 3.50

NEATSFOOT OIL - For softening and preserving leather pouches.. 8 oz.

NO. 324 \$5.00

PULLEY for ELECTRIC MOTOR

Shaft dia., 1/2". 2" dia. w/ 1" at bottom of groove.

This is the orig. size used on reproducing pianos.

Made of cast iron.

NO. 959 \$12.50



HINGE MATERIAL for pneumatics. 1" wide cotton, 1/32" thick. Does not unravel.

NO. 455 per foot, 1-9 \$.35
per foot, 10 or more \$.29

COINOLA

SIMPLICITY, RELIABILITY, ENDURANCE

Add these additional service features up, and you will chose the new COINOLA as the name that means the highest quality

- Still, the old fashioned, no-nonsense chain drive and gear reroll. (No belts or rubber bands!) It is clutched to eliminate abrupt stops, and "smooth as silk", to use the description of it's inventor, Craig Brougher.
- Perfect tracking. No readjustment necessary even after removal and replacement of the snap-out tracker bar. Large knurled knob which adjusts tracking registration stays in place on the side plate.
- Ball bearing construction throughout. Designed for heavy and continuous commercial use where maintenance or inspection is haphazard.
- Heavy steel plates and 1/2" dia. spacing rods with precision machined bolt threads and shoulder on both ends. Solidly built throughout to maintain rigidity and perfect alignment.
- All metal parts coated or plated to resist rust or corrosion.
- Switching functions, reroll, brakes, roll alignment, and tracker bar are fully adjustable and easily accessible.
- Has "stack" cut-out pallet valve.
- Has fail-safe mechanical latch for play and reroll which favors play position. This means, when changing rolls, a flick of the finger on latch will run it off the take up spool and it will immediately reverse into play with tracker bar open. Music roll may be changed without stopping machine. The pneumatics, operating latch, will operate on as little as 10" vacuum.
- Roll speed, once set, will never vary. This can be in a tempo range of 0 to 85 (The normal tempo for nickelodeon rolls is 85) The electronic components used here, eliminate drifting motor speeds under any condition. Motor will not stall when starting up again, even if left on a tempo "1" setting.
- Roll chuck connecting shaft is hardened and nickel plated. No pivot on idler end. Unlike other spool frames, the entire idler plunger revolves with the music roll in ball bearings. No wear and drooping as on stationary types; this assures many years of solid roll chuck support, without having this critical lubrication point. The right end idler shaft is spring loaded, and can be locked out of the way.
- When unlocked to engage the hard tempered slotted shaft of the music roll chuck, there is constant spring pressure to avoid accidental shifting of music chuck position, which could ruin a roll on rewind; slow or fast - in this case, very fast. The drive side flange is permanently fixed in position. It can never slip when handling it to change music rolls.

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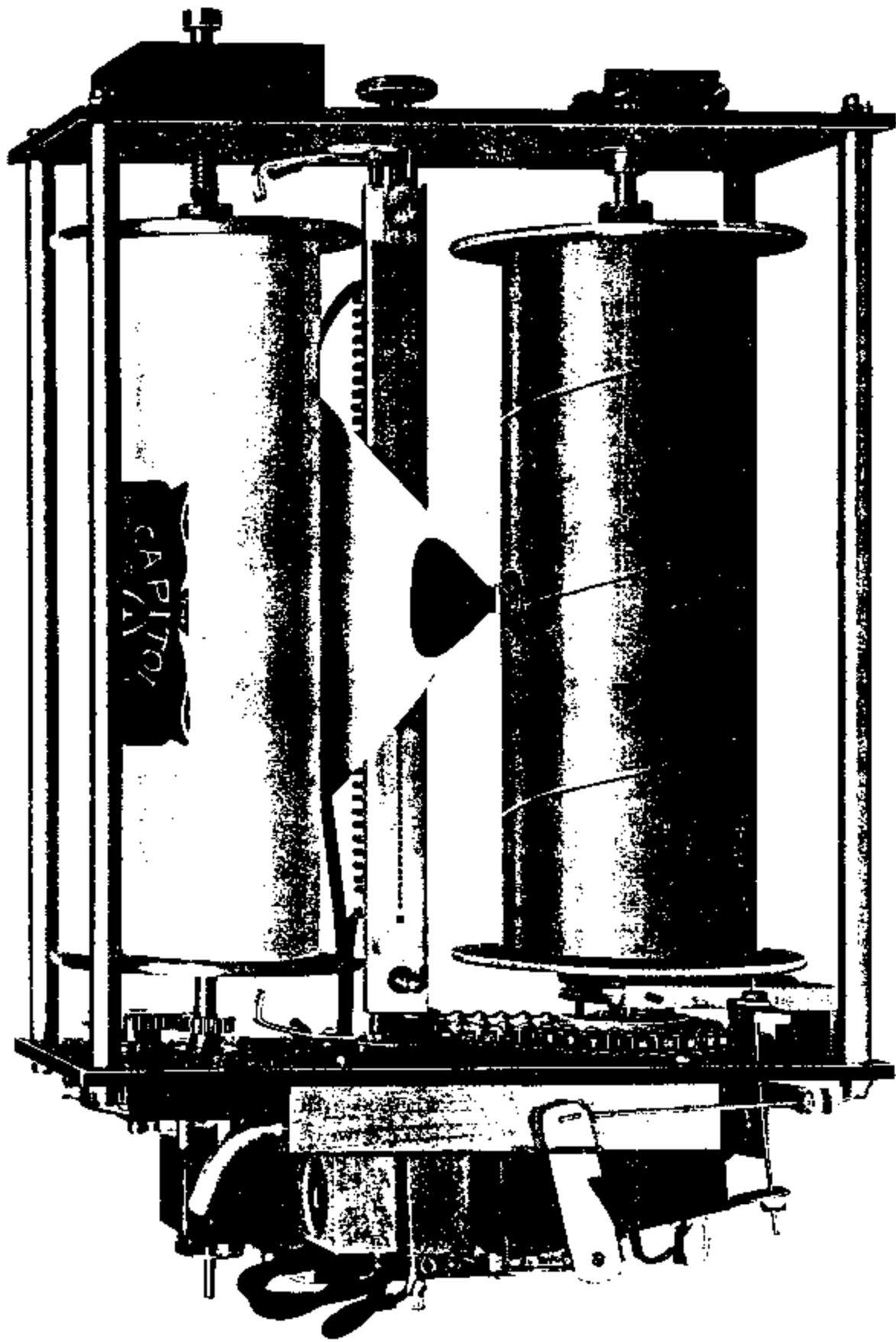
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