

CUSTOM BASS STRINGS

All copper windings on *FINEST GRADE PIANO CORE WIRE*

COMPLETE SETS:

For Uprights, Spinets and Small Grands. **No. 2044** Per String.
For Concert Grands and Square Grands. **No. 2045** Per String.

PARTIAL SETS:

10 to 20 Consecutive Single Wound Strings. **No. 2042** Per String.
8 to 20 Consecutive Double Wound Strings. **No. 2043** Per String.

DIRECTIONS FOR ORDERING COMPLETE SETS

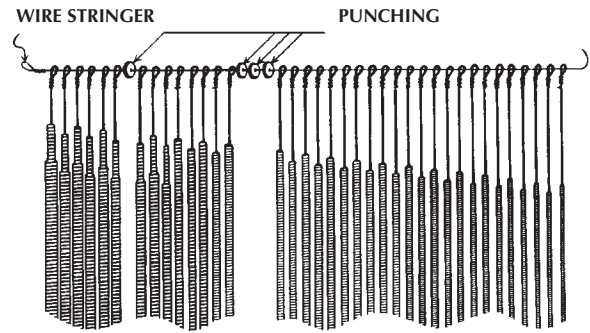
METHOD NO. 1 RETURNING OLD STRINGS

Remove old strings from the piano, stringing them on a wire in numerical order as they are removed from the piano. Where a string is missing, place a punching on the wire to represent the missing string.

BE SURE TO KEEP THE STRINGS IN NUMERICAL ORDER

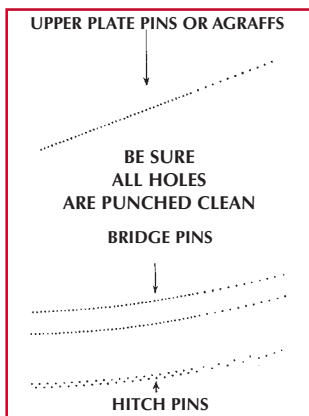
Send the old strings to SCHAFF with your name, address and customer number on a slip of paper along with the following information:

1. Name of Piano
2. Number of strings one (1) to a note
3. Number of strings two (2) to a note
4. Number of strings three (3) to a note
5. Number of wound strings on separate or treble bridge



STRING ON WIRE IN NUMERICAL ORDER

METHOD NO. 2 PAPER IMPRESSION OF HITCH PINS, BRIDGE PINS, AND UPPER PLATE PINS OR BEARING POINTS.



PICTURE OF PAPER PATTERN

Satisfactory results can be obtained with a paper pattern

- Take a piece of paper long enough and wide enough to cover the complete bass string section.
- With the Pattern on top of the Hitch-Pins, sandpaper across the Pattern until the Hitch-Pins clearly show through the paper. Press the Pattern down around the Hitch-Pins until the paper rests on the plate.
- With the Pattern now firmly held by the Hitch-Pins, stretch it tightly across the Bridge-Pins and sandpaper the Pattern until all Bridge-Pins clearly show through the paper. Press the Pattern all the way down on the Bridge-Pins until the paper rests on the bridge with the Bridge-Pins clearly showing through the Pattern.
- Now stretch the Pattern over the Agraffes or the Upper Plate bearing points and sandpaper on the Pattern until their position is clearly indicated.

This gives us an accurate pattern (see illustration) and assures you a set of strings that will properly fit your piano.

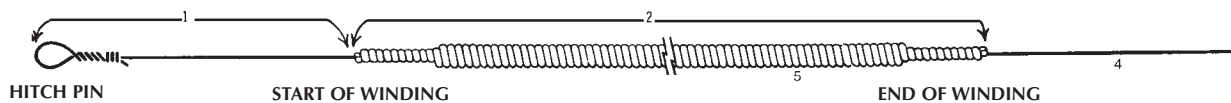
Send the Pattern with the First and Last strings to SCHAFF with the following information written on the pattern:

1. State if pattern was taken over the dampers.
2. Name of piano.
3. Number of strings one (1) to a note.
4. Number of strings two (2) to a note.
5. Number of strings three (3) to a note.

INDIVIDUAL STRINGS

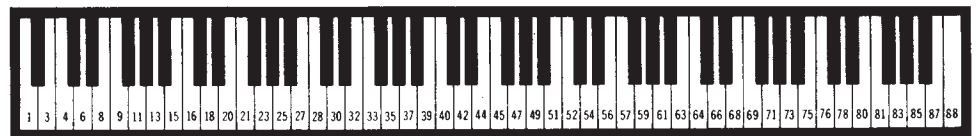
(Ninety-five per cent (95%) of all individual string replacements can be made from the SCHAFF UNIVERSAL REPLACEMENT PACKET.)

No. 2040 - Single Wound Strings. Each
No. 2041 - Double Wound Strings. Each



Whenever possible return the old string for duplication. If the old string is not available, we can make one for you with the following information:

1. Length from Hitch-Pin to start of winding.
2. Length of winding.
3. Number of NOTE as it lies in the scale.
4. Core diameter (steel).
5. Overall diameter with wrap (copper).



Number of Note as it lies in the scale can be determined by counting from the lowest bass note in the Piano (No. 1) on up the scale toward the Treble Section. (See illustration above.) Also state if a "Single string" (one string to a note) or a "Unison string" (more than one string to a note).



UNIVERSAL BASS STRINGS

On-The-Spot Replacement of Single Wound Bass Strings SAVES TIME and LABOR

SCHAFF UNIVERSAL REPLACEMENT PIANO STRINGS



The Schaff Universal Bass String Packet enables you to make "On-the-Spot" replacement of all single-wound Bass Strings except the largest grands. It's a MUST in Tuners' Kits because it permits immediate replacement of broken or dead bass strings while on the JOB and saves the costly call back. IT'S CONVENIENT...you simply unwind covering wire, clip it and the extended core wire to correct length and install.

To keep your set complete, simply return the tag from the string you use and we will send you the exact duplicate.



SCHAFF CANVAS CASE

This case has tie strings on both ends to permit coiling and fastening for easier carrying.

No. 2007 - Canvas Case, Water Repellent. Each

PACKET OF 19 STRINGS

No. 2019 - Packet of 19 strings. Set

PACKET OF 6 HEAVIEST STRINGS

No. 2006 - Packet of 6 Heaviest Strings. Set

PACKET OF 10 STRINGS

Very heavy replacement on Steinway Grands, etc.

No. 2010 - Packet of 10 Strings. Set

PACKET OF 37 STRINGS

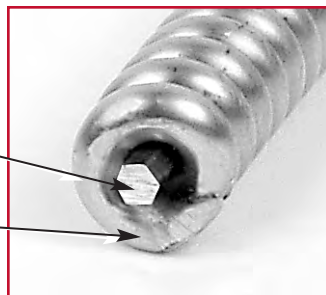
A special assortment of 37 Strings adaptable to some of the better make grands which use a lighter size steel core and a heavier size copper covering wire.

No. 2037 - Packet of 37 Strings. Set



HEXAGON STEEL CORE WIRE

COPPER WINDING



Enlarged image of hexagon steel core wire. This shows how each coil of Copper Covering Wire is gripped permanently by the six edges of Hexagon Steel.

STRING CASE

For replacement strings. Hold 4 lbs. of wire: 1 - No. 2019 Packet of 19 strings and 1 - No. 2006 Packet of 6 heavy strings, plus an assortment of tuning pins. 2-3/4" x 15-1/2" x 15-1/2". Made of heavy fibre board with metal corner braces. Strong strap with claw buckle. A very handy and useful case for your replacement strings.

No. 260 - Case only (unfilled). Each



UNIVERSAL BASS STRINGS

INDIVIDUAL UNIVERSAL BASS STRING MEASUREMENTS

STOCK NO.	STRING NO.	APPROXIMATE OUTER DIAMETER	LENGTH OF WRAP	STOCK NO.	STRING NO.	APPROXIMATE OUTER DIAMETER	LENGTH OF WRAP
No. 2019 (19 string series) 3-1/2" hitch to wrap (all strings) Set includes 1 of the following except items marked with an asterisk.				No. 2037 (37 string series) 3-5/8" hitch to wrap (all strings) Set includes 1 of the following			
2019R-1	B48 1	.144"	59-5/8	2037R-1	S50 1	.138"	56-1/8
2019R-1-1/2	B48 1-1/2	.134"	59	2037R-2	S50 2	.136"	55-7/8
2019R-2	B48 2	.128"	58-5/8	2037R-3	S50 3	.132"	55-5/8
2019R-2-1/2	B48 2-1/2	.124"	58-1/4	2037R-4	S50 4	.128"	55-3/8
2019R-3	B48 3	.117"	57-5/8	2037R-5	S50 5	.125"	55-1/4
2019R-3-1/2	B48 3-1/2	.112"	57-1/8	2037R-6	S50 6	.122"	55
2019R-4	B48 4	.109"	56-3/4	2037R-7	S50 7	.118"	54-3/4
2019R-4-1/2	B48 4-1/2	.102"	56-1/4	2037R-8	S50 8	.116"	54-1/2
2019R-5	B48 5	.097"	55-7/8	2037R-9	S50 9	.114"	54-1/4
2019R-5-1/2	B48 5-1/2	.088"	55-1/8	2037R-10	S50 10	.112"	54
2019R-6	B48 6	.084"	54-3/4	2037R-11	S50 11	.109"	53-5/8
2019R-6-1/2	B48 6-1/2	.077"	54-1/4	2037R-12	S50 12	.107"	53-1/2
2019R-7	B48 7	.075"	53-3/4	2037R-13	S50 13	.104"	53-1/8
2019R-7-1/2	B48 7-1/2	.074"	53-1/8	2037R-14	S50 14	.099"	53-1/8
2019R-8	B48 8	.069"	52-5/8	2037R-15	S50 15	.097"	53-1/8
2019R-8-1/2*	B48 8-1/2	.067"	52-1/4	2037R-16	S50 16	.094"	53-1/8
2019R-9	B48 9	.063"	51-5/8	2037R-17	S50 17	.092"	53-1/8
2019R-9-1/2*	B48 9-1/2	.061"	51-1/8	2037R-18	S50 18	.088"	53-1/8
2019R-10	B48 10	.059"	50-1/2	2037R-19	S50 19	.086"	53-1/8
2019R-10-1/2*	B48 10-1/2	.056"	50-1/8	2037R-20	S50 20	.082"	53-1/8
2019R-11	B48 11	.054"	49-1/2	2037R-21	S50 21	.080"	53-1/8
2019R-11-1/2*	B48 11-1/2	.053"	49	2037R-22	S50 22	.077"	53-1/8
2019R-12	B48 12	.051"	48-5/8	2037R-23	S50 23	.076"	53-1/8
No. 2006 (6 string series) 3-1/2" hitch to wrap (all strings) Set includes 1 of the following				2037R-24 S50 24 .075" 53-1/8 2037R-25 S50 25 .073" 53-1/8 2037R-26 S50 26 .071" 53-1/8 2037R-27 S50 27 .069" 53-1/8 2037R-28 S50 28 .067" 52-7/8 2037R-29 S50 29 .066" 52-1/2 2037R-30 S50 30 .065" 52-1/4 2037R-31 S50 31 .064" 51-3/4 2037R-32 S50 32 .063" 51-3/8 2037R-33 S50 33 .062" 51 2037R-34 S50 34 .061" 50-5/8 2037R-35 S50 35 .060" 50-1/4 2037R-36 S50 36 .058" 45-1/4 2037R-37 S50 37 .056" 44-7/8			
2006R-01	B48 01	.155"	59-5/8				
2006R-02	B48 02	.158"	59-5/8				
2006R-03	B48 03	.165"	59-5/8				
2006R-04	B48 04	.175"	59-5/8				
2006R-05	B48 05	.186"	59-5/8				
2006R-06	B48 06	.194"	59-5/8				
No. 2010 (10 string series) 3-5/8" hitch to wrap (all strings) Set includes 1 of the following							
2010R-01	S50 01	.212"	60-1/4				
2010R-02	S50 02	.207"	60				
2010R-03	S50 03	.202"	59-5/8				
2010R-04	S50 04	.197"	59-1/4				
2010R-05	S50 05	.191"	58-5/8				
2010R-06	S50 06	.185"	58-1/8				
2010R-07	S50 07	.179"	57-3/4				
2010R-08	S50 08	.172"	57-1/4				
2010R-09	S50 09	.166"	56-7/8				
2010R-010	S50 010	.160"	56-3/8				



UNIVERSAL BASS STRINGS

SCHAFF UNIVERSAL BASS STRING PACKET

STEP BY STEP INSTRUCTIONS FOR INSTALLING SCHAFF UNIVERSAL REPLACEMENT PIANO STRINGS

- 1 Select a string from the Schaff Replacement Set which matches most closely the overall diameter of the broken string.



Place the loop end of the wire over the hitch pin and across the bass bridge. Line up replacement string with other strings in the piano. Measure 1/4" from point where windings end on other strings toward the bass bridge. Cut through copper winding of new string at this point.



Stretch replacement string across to upper plate bearing or agraffe. Line up replacement string with windings of other strings. Measure 1/4" from winding line toward opposite (hitch pin) side to allow for stretch. Cut through copper winding (see No. 6) of new string at this point.



Stretch replacement string up to the tuning pin. Allow enough length for 3 coils on tuning pin. Cut through winding and wire core to remove excess length of the replacement string.



Be sure to cut through copper winding wire with a circular motion in the same direction as the winding has been done. This will prevent windings from loosening their grip on core wire.



Remove replacement string and unwind copper winding at both ends up to the scored sections. Install as a custom made string.

Keep your replacement set complete - return the tags from all replacement strings you use.



PIANO WIRE



RÖSLAU Piano Wire - Imported from Germany. Piano Wire is the "Blue Chip" of the steel industry. Because of its exacting requirements, only the finest grade steel of precise chemical analysis is used in its manufacture. To help assure beauty of tone, it must be exceedingly uniform in thickness and roundness. Tolerances are held to .0003". This wire is the finest available. Measured by American Standard Music Gauge.

SCHAFF DISPENSING REELS

This is the most convenient, practical and economical way of handling small coils of piano wire. The dispenser straightens wire as it is dispensed, prevents rust from finger contact and keeps wire under control. You need only one brake for each size wire you carry. Just transfer brake from empty reel to new full reel.

Size	Diameter	Feet Per Lb. (Approx.)	Stock Numbers		
			1/2 Lb. Coil	1 Lb. Coil	5 Lb. Coil
12	.029	440	1/2-12	1-12	5-12
12-1/2	.030	415	1/2-12-1/2	1-12-1/2	5-12-1/2
13	.031	390	1/2-13	1-13	5-13
13-1/2	.032	366	1/2-13-1/2	1-13-1/2	5-13-1/2
14	.033	350	1/2-14	1-14	5-14
14-1/2	.034	328	1/2-14-1/2	1-14-1/2	5-14-1/2
15	.035	306	1/2-15	1-15	5-15
15-1/2	.036	290	1/2-15-1/2	1-15-1/2	5-15-1/2
16	.037	274	1/2-16	1-16	5-16
16-1/2	.038	260	1/2-16-1/2	1-16-1/2	5-16-1/2
17	.039	250	1/2-17	1-17	5-17
17-1/2	.040	234	1/2-17-1/2	1-17-1/2	5-17-1/2
18	.041	223	1/2-18	1-18	5-18
18-1/2	.042	212	1/2-18-1/2	1-18-1/2	5-18-1/2
19	.043	200	1/2-19	1-19	5-19
19-1/2	.044	190	1/2-19-1/2	1-19-1/2	5-19-1/2
20	.045	182	1/2-20	1-20	5-20
20-1/2	.046	174	1/2-20-1/2	1-20-1/2	5-20-1/2
21	.047	165	1/2-21	1-21	5-21
21-1/2	.048	160	1/2-21-1/2	1-21-1/2	5-21-1/2
22	.049	156	1/2-22	1-22	5-22

Stock Numbers	
1/3 Lb. With Brake	1/3 Lb. Without Brake
1/3W-12	1/3W/O-12
1/3W-12-1/2	1/3W/O-12-1/2
1/3W-13	1/3W/O-13
1/3W-13-1/2	1/3W/O-13-1/2
1/3W-14	1/3W/O-14
1/3W-14-1/2	1/3W/O-14-1/2
1/3W-15	1/3W/O-15
1/3W-15-1/2	1/3W/O-15-1/2
1/3W-16	1/3W/O-16
1/3W-16-1/2	1/3W/O-16-1/2
1/3W-17	1/3W/O-17
1/3W-17-1/2	1/3W/O-17-1/2
1/3W-18	1/3W/O-18
1/3W-18-1/2	1/3W/O-18-1/2
1/3W-19	1/3W/O-19
1/3W-19-1/2	1/3W/O-19-1/2
1/3W-20	1/3W/O-20
1/3W-20-1/2	1/3W/O-20-1/2
1/3W-21	1/3W/O-21
1/3W-21-1/2	1/3W/O-21-1/2
1/3W-22	1/3W/O-22

Music Wire: Thin Sizes:

Size	Diameter	Feet Per Lb. (Approx.)	Stock Numbers	
			1/4 Lb. Coil	1/2 Lb. Coil
4/0	.006	10,204	1/4-4/0	-
3/0	.007	7,462	1/4-3/0	-
2/0	.008	5,714	1/4-2/0	-
0	.009	4,545	1/4-0	-
1	.010	3,700	1/4-1	-
2	.011	3,033	1/4-2	-
3	.012	2,560	1/4-3	-
4	.013	2,170	1/4-4	-
5	.014	1,886	-	1/2-5
6	.016	1,428	-	1/2-6
7	.018	1,136	-	1/2-7
8	.020	917	-	1/2-8
9	.022	757	-	1/2-9
10	.024	636	-	1/2-10
11	.026	540	-	1-2-11

Music Wire: Thick Sizes:

Size	Diameter	Feet Per Lb. (Approx.)	2 Lb. Coil
23	.051	140	2-23
24	.055	121	2-24
25	.059	105	2-25
26	.063	92	2-26
27	.067	81	2-27
28	.071	72	2-28
29	.075	66	2-29
30	.080	60	2-30
31	.085	52	2-31
32	.090	45	2-32
33	.095	41	2-33
34	.100	37	2-34
35	.106	32	2-35
36	.112	29	2-36

Music Wire has a variety of uses. The following list shows some of the common uses and the corresponding wire sizes:

#2/0 to #6 - Harpsichords
 #6 to #13 - Cheese and Butter Cutters
 #5 to #9 - Surgical

#9 to #11 - Zithers
 #7 and #9 - Dulcimers
 #26 Automotive Choke Cable



MAPES IGS WIRE

A premium grade piano wire manufactured in the USA drawn to international standards from the worlds finest steel exceptional tensile strength and resistance to elongation. Available in sizes 12-22 in 1 Lb. & 5 Lb. Coils.

Wire Canisters

The most economical and practical way to store piano wire. Our two-piece canisters hold any standard 1 lb. coil (also 1/2 Lb.).

No. 166 - Wire Canister. Each

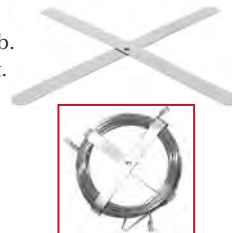


Metal Clamps

Holds 1/2 and 1 Lb. coils of wire intact.

No. 168-1/2A - 7 1/2". Each

No. 168-1/2B - 9". Each



Dispensing Brakes

Replacement brake for Schaff 1/3 Lb. dispensing reels.

No. 168 - Brake Only. Each

