## STEINWAY & SONS PIANO SPECIFICATIONS

NEMAOR

AMBURG

STEINWAL



### STEINWAY & SONS PIANO FEATURES OF DISTINCTION

That which distinguishes Steinway pianos, more than all else, is summed up in our dedication to a single ideal: *Make the finest pianos in the world*. It has never entered our minds to compromise quality. Where some have substituted mass-produced, synthetic components to speed production or reduce costs, we apply technologies and new materials only when they provide proven enhancements to the piano. We adhere to these principles for one reason: Compromise quality, and you risk the sound, the touch, and ultimately, the integrity of the instrument.

While we adhere to the traditional values of craftsmanship, Steinway & Sons has also led consistently through innovation. The very earliest pianos crafted by Steinway were distinguished by their inventive features many of which helped define the modern piano. Today, each Steinway piano is a summation of our commitment to innovation. Each incorporates over 125 patented features and processes, including our patented Diaphragmatic<sup>®</sup> soundboard, Accelerated Action<sup>®</sup>, and Hexagrip<sup>®</sup> pinblock. Both inner and outer rim are bent to shape and pressed together into one piece, in one operation, for solidity and tone. All case components are fitted, glued, and maple-doweled for homogeneity before installation of the soundboard.

Since 1853, Steinway pianos have set an uncompromising standard for sound, touch, beauty, and investment value. Handcrafting each Steinway requires up to one full year—creating an instrument of rare quality and global renown. Not surprisingly, Steinway remains the choice of 9 out of 10 concert artists—and countless pianists, composers, and performers around the world.



# STEINWAY & SONS

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)		
DIMENSIONS											
HEIGHT							52″ (132 cm)	46 1/2" (118 cm)	45 3/4" (116 cm)		
LENGTH	8′ 11 3/4″ (274 cm)	6′ 11″ (211 cm)	6′ 2″ (188 cm)	5′ 10 3/4″ (180 cm)	5′ 7″ (170 cm)	5′ 1″ (155 cm)					
WIDTH	61 1/4" (156 cm)	58" (148 cm)	57 3/4" (147 cm)	57 3/4" (146.5 cm)	57 3/4" (147 cm)	57 3/4" (147 cm)	60 3/4" (154 cm)	58 3/8" (148 cm)	58 3/8" (148 cm)		
DEPTH							26 3/8" (67 cm)	25″ (64 cm)	25″ (64 cm)		
NET WEIGHT	990 pounds (450 kg)	760 pounds (345 kg)	695 pounds (315 kg)	616 pounds (280 kg)	560 pounds (275 kg)	540 pounds (252 kg)	600 pounds (273 kg)	480 pounds (218 kg)	480 pounds (218 kg)		
ENCASEMENT											
FURNITURE	Ebonized or Crown Jewel Collection Veneer	Ebonized or Crown Jewel Collection Veneer	Ebonized or Crown Jewel Collection Veneer	Ebonized or Crown Jewel Collection Veneer							
PANEL STOCK	Quarter-sawn poplar corewood cross banded and face veneered.	Quarter-sawn poplar corewood cross banded and face veneered.	Quarter-sawn poplar corewood cross banded and face veneered.	Quarter-sawn poplar corewood cross banded and face veneered.							
SOLIDS	Ebonized or veneered birch, mahogany, walnut.	Ebonized or veneered birch, mahogany, walnut.	Ebonized or veneered birch, mahogany, walnut.	Ebonized or veneered birch, mahogany, walnut.							
LEGS	Ebonized or veneered birch. Sturdy locking mechanisms allow quick, damage-free removal.	Ebonized mahogany, genuine specie.	Ebonized mahogany, genuine specie.	Ebonized mahogany, genuine specie.	Ebonized mahogany, genuine specie.						
FINISH	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed OR Heavy full-bodied black polyester (high polish), hand-polished.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed.	Heavy full-bodied black or clear lacquer (satin), hand-rubbed.		
HARDWARE	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.	Solid brass; polished & lac- quered, or chrome or nickel plated.		

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)
INSTRUMENT	-								
RIM	Made entirely from hard rock maple; <b>17 laminations;</b> continuous bent, both inner & outer form one single rim; unequaled strength and stability. <b>Thick-</b> <b>ness: 3 1/4"</b> <b>(8.26 cm)</b>	Made entirely from hard rock maple; <b>16 laminations;</b> continous bent, both inner & outer form one single rim; unequaled strength and stability. <b>Thick-</b> <b>ness: 2 3/4"</b> <b>(6.99 cm)</b>	Made entirely from hard rock maple; <b>16 laminations;</b> continuous bent, both inner & outer form one single rim; unequaled strength and stability. <b>Thick-</b> <b>ness: 2 3/4"</b> <b>(6.99 cm)</b>	Made entirely from hard rock maple; 13 laminations; continuous bent, both inner & outer form one single rim; unequaled strength and stability. Thick- ness: 2 7/16" (6.19 cm)	Made entirely from hard rock maple; <b>10 laminations;</b> continuous bent, both inner & outer form one single rim; unequaled strength and stability. <b>Thick-</b> <b>ness: 2 1/4"</b> <b>(5.72 cm)</b>	Made entirely from hard rock maple; <b>10 laminations;</b> continuous bent, both inner & outer form one single rim; unequaled strength and stability. <b>Thick-</b> <b>ness: 2 1/4"</b> <b>(5.72 cm)</b>	Back Frame: Solid birch mortised foot-piece. Solid birch soundboard lining. Grand-type maple laminated closing rim; unequaled vertical strength and stability.	Back Frame: Solid birch mortised foot-piece Solid birch soundboard lining. Solid maple closing blocks with expansion cuts; unequaled vertical strength and stability.	Back Frame: Solid birch mortised foot-piece Solid birch soundboard lining. Solid maple closing blocks with expansion cuts; unequaled vertical strength and stability.
BRACES	<b>5</b> solid spruce with a volume of 2,907 cu. In. (47,637cm3); Spruce provides tensile strength with less weight. Maple dowels fas- ten braces to rim producing a single homogenuos foun- dation upon which is built the entire tonal component. A cast iron treble bell, affixed to rim's underside at treble bend, holds plate firmly in position by means of a steel bolt. The S & S iron wedge anchors brace ends securely to crossblock assur- ing permanent rim posture.	4 solid spruce with a volume of 1,995 cu. In. (32,686cm3); Spruce provides tensile strength with less weight. Maple dowels fas- ten braces to rim producing a single homogenuos foun- dation upon which is built the entire tonal component. A cast iron treble bell, affixed to rim's underside at treble bend, holds plate firmly in position by means of a steel bolt. The S & S iron wedge anchors brace ends securely to crossblock assur- ing permanent rim posture.	3 solid spruce with a volume of 1,387 cu. In. (22,729cm3); Spruce provides tensile strength with less weight. Maple dowels fas- ten braces to rim producing a single homogenuos foun- dation upon which is built the entire tonal component. A cast iron treble bell, affixed to rim's underside at treble bend, holds plate firmly in position by means of a steel bolt. The S & S iron wedge anchors brace ends securely to crossblock assur- ing permanent rim posture.	3 solid spruce with a volume of 1,253 cu. In. (20,528cm3); Spruce provides tensile strength with less weight. Maple dowels fasten braces to rim producing a single homoge- nous foundation upon which is built the entire tonal component. The S & S iron wedge anchors brace ends securely to crossblock assur- ing permanent rim posture.	3 solid spruce with a volume of 1,196 cu. In. (19,597cm3); Spruce provides tensile strength with less weight. Maple dowels fasten braces to rim & crossblock producing a single homogenous foundation upon which is built the tonal component. Note: Treble bell is not required in smaller grands of lesser tensions.	3 solid spruce with a volume of 1,050 cu. In. (17,202cm3); Spruce provides tensile strength with less weight. Maple dowels fasten braces to rim & crossblock producing a single homogenous foundation upon which is built the tonal component. Note: Treble bell is not required in smaller grands of lesser tensions.	POSTS: 5 FULL- LENGTH tapered solid spruce with a volume of 3,600 cu. In. (58,993cm3); Assures that back- frame will remain straight, promot- ing stable and consistent tuning. Strategically positioned with bottom ends tenoned into birch foot-piece for positive vertical alignement.Spruce fill-blocks between posts at top of backframe capped with solid birch backing board for postive horizontal alignment.	POSTS: 5 FULL- LENGTH tapered solid spruce with a volume of 3,100 cu. In. (50,780cm3); Assures that back- frame will remain straight, promot- ing stable and consistent tuning. Strategically positioned with bottom ends tenoned into birch foot-piece for positive vertical alignment. Spruce fill-blocks between posts at top of backframe capped with solid birch backing board for postive horizontal alignment.	POSTS: 5 FULL- LENGTH tapered solid spruce with a volume of 3,100 cu. In. (50,780cm3); Assures that back- frame will remain straight, promot- ing stable and consistent tuning. Strategically positioned with bottom ends tenoned into birch foot-piece for positive vertical alignment. Spruce fill-blocks between posts at top of backframe capped with solid birch backframe capped with solid birch backing board for postive horizontal alignment.
PINBLOCK	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain symmetical distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid setting, and a piano will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain symmetical distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid setting, and a piano will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.	Hexagrip patented design; 7 lamina- tions of quartered hardrock maple stock. Grain sym- metically distrib- uted at successive angles of 45°, 90°, employing grain direction uniformly around the circum- ference of the tuning pin to pro- vide the ultimate in pin grippage. As a result of this exclusive design, the tuning pin has smoother movement under torque, a more uniform retaining action for solid set- ting, and a piano which will hold its tuning longer.

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)
SOUNDBOARD	Created like the								
	soundboard of vi-								
	olins to give a free								
	and even response								
	throughout the								
	entire scale, it is								
	so constructed as								
	to be <b>9 mm</b> thick	to be <b>8 mm</b> thick							
	in the center and								
	tapered to <b>6 mm</b>	tapered to <b>5 mm</b>							
	as it approaches								
	the rim and								
	outer case before								
	being DOUBLE								
	CROWNED. This								
	design permits								
	complete freedom								
	of movement,								
	while acting as								
	a homogenous								
	unit to displace a								
	greater amount	greater amount	greater amount of	greater amount of	greater amount				
	of air, thereby	of air, thereby	air, thereby cre-	air, thereby cre-	of air, thereby				
	creating a richer	creating a richer	ating a richer and	ating a richer and	creating a richer				
	and more lasting	and more lasting	more lasting tonal	more lasting tonal	and more lasting				
	tonal response.	tonal response.	response. Close-	response. Close-	tonal response.				
	Close-grained,	Close-grained,	grained, quar-	grained, quar-	Close-grained,	Close-grained,	Close-grained,	Close-grained,	Close-grained,
	quarter-sawn	quarter-sawn	ter-sawn Sitka or	ter-sawn Sitka or	quarter-sawn	quarter-sawn	quarter-sawn	quarter-sawn	quarter-sawn
	Sitka spruce,	Sitka spruce,	European spruce,	European spruce,	Sitka spruce,	Sitka spruce,	Sitka spruce,	Sitka spruce,	Sitka spruce,
	a wood having								
	unusual stability								
	and vibrance								
	under stress and								
	vibration, is used								
	exclusively for the								
	soundboard.								
RIBS	Made from								
	durable, resinous								
	sugar pine to								
	assure strong								
	and constant								
	support of string								
	down-bearing on								
	the soundboard.								
	Rib ends are								
	hand-fitted into								
	their mounting								
	services virtually								
	locking in the								
	important sound-								
	board crown.								

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)
BRIDGES	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Continuous with treble. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Continuous with treble. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.	Treble: hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Rock maple base cantilevered at angle for max- imum resistance to string pressure. Maple doweled, glued and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.	Treble: Hard rock maple vertical lam- inations capped with solid hard rock maple; planed to prescribed height, graphite coated, drilled, and notched by hand for precise individual string bearing. Design defies splitting. Bass: Solid rock maple mounted to cantilevered and splined base. Maple doweled, glued, and screwed to soundboard.
SCALE	Overstrung;	Overstrung;	Overstrung;	Overstrung;	Overstrung;	Overstrung;	Overstrung;	Overstrung;	Overstrung;
	combination	combination	combination	combination	combination	combination	twenty-six note	combination	combination
	agraffe; Front	agraffe; Front	agraffe; Front	agraffe; Front	agraffe; Front	agraffe; Front	bass/tenor break.	agraffe; Front	agraffe; Front
	AND rear duplex.	AND rear duplex.	AND rear duplex.	AND rear duplex.	AND rear duplex.	AND rear duplex.	Treble duplex.	AND rear duplex.	AND rear duplex.
	Tension: 45,373	<b>Tension: 39,047</b>	Tension: 41,888	Tension: 41,888	Tension: 33,823	Tension: 32,332	<b>Tension: 37,500</b>	Tension: 36,900	<b>Tension: 36,900</b>
	Ibs. (20,418 kg)	<b>Ibs. (17,571 kg)</b>	Ibs. (19,000 kg)	Ibs. (19,000 kg)	Ibs. (15,040 kg)	Ibs. (14,550 kg)	<b>Ibs. (16,875 kg)</b>	Ibs. (16,605 kg)	<b>Ibs. (16,605 kg)</b>
PLATE	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;	Sturdy gray iron;
	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,	filled, CNC-milled,
	and sealed;	and sealed;	and sealed;	and sealed;	and sealed;	and sealed;	and sealed;	and sealed;	and sealed;
	bronzed and	bronzed and	bronzed and	bronzed and	bronzed and	bronzed and	bronzed and	bronzed and	bronzed and
	lacquered.	lacquered.	lacquered.	lacquered.	lacquered.	lacquered.	lacquered.	lacquered.	lacquered.
TUNING PINS	Premium blued	Premium blued	Premium blued	Premium blued	Premium blued	Premium blued	Premium blued	Premium blued	Premium blued
	steel with rust-	steel with rust-	steel with rust-	steel with rust-	steel with rust-	steel with rust-	steel with rust-	steel with rust-	steel with rust-
	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled	resistant, nickeled
	heads.	heads.	heads.	heads.	heads.	heads.	heads.	heads.	heads.
STRINGS	Treble: Twelve	Treble: Twelve	Treble: Twelve	Treble: Ten	Treble: Eleven	Treble: Twelve	Treble: Ten	Treble: Twelve	Treble: Twelve
	whole & one-	whole & one-	whole & one-	whole & one-	whole & one-	whole & one-	whole & one-	whole & one-	whole & one-
	half sizes from	half sizes from	half sizes from	half sizes from	half sizes from	half sizes from	half sizes from	half sizes from	half sizes from
	high-tensile	high-tensile	high-tensile	high-tensile Swed-	high-tensile	high-tensile	high-tensile Swed-	high-tensile Swed-	high-tensile Swed-
	Swedish steel.	Swedish steel.	Swedish steel.	ish steel. Bass:	Swedish steel.	Swedish steel.	ish steel. Bass:	ish steel. Bass:	ish steel. Bass:
	Bass: Swedish	Bass: Swedish	Bass: Swedish	Swedish steel	Bass: Swedish	Bass: Swedish	Swedish steel	Swedish steel	Swedish steel
	steel core wire	steel core wire	steel core wire	core wire wound	steel core wire	steel core wire	core wire wound	core wire wound	core wire wound
	wound with pure	wound with pure	wound with pure	with pure copper.	wound with pure	wound with pure	with pure copper.	with pure copper.	with pure copper.
	copper. Longest,	copper. Longest,	copper. Longest,	Longest, Agraffe/	copper. Longest,	copper. Longest,	Longest, pressure	Longest, pressure	Longest, pressure
	Agraffe to bridge:	Agraffe/bridge: 59	Agraffe/bridge: 55	bridge: 54 1/8"	Agraffe/bridge: 49	Agraffe/bridge: 45	bar/bridge: 46	bar/bridge: 43	bar/bridge: 43
	79 1/4" (201 cm)	1/4" (151 cm)	5/8" (141 cm)	(137 cm)	1/4" (125 cm)	1/2" (116 cm)	3/8" (118 cm)	1/2" (110 cm)	1/2" (110 cm)
HAMMERS	Premium wool top	Premium wool top	Premium wool top	Premium wool top	Premium wool top	Premium wool top	Premium wool top	Premium wool top	Premium wool top
	felt over premium	felt over premium	felt over premium	felt over premium	felt over premium	felt over premium	felt over premium	felt over premium	felt over premium
	wool under felt;	wool under felt;	wool under felt;	wool under felt;	wool under felt;	wool under felt;	wool under felt;	wool under felt;	wool under felt;
	treated to resist	treated to resist	treated to resist	treated to resist	treated to resist	treated to resist	treated to resist	treated to resist	treated to resist
	insects and mois-	insects and mois-	insects and mois-	insects and mois-	insects and mois-	insects and mois-	insects and mois-	insects and mois-	insects and mois-
	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-	ture. Compres-
	sion-wired to	sion-wired to	sion-wired to	sion-wired to	sion-wired to	sion-wired to	sion-wired to	sion-wired to	sion-wired to
	retain permanent	retain permanent	retain permanent	retain permanent	retain permanent	retain permanent	retain permanent	retain permanent	retain permanent
	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock	shape. Hard rock
	maple hammer	maple hammer	maple hammer	maple hammer	maple hammer	maple hammer	maple hammer	maple hammer	maple hammer
	moldings and	moldings and	moldings and	moldings and	moldings and	moldings and	moldings and	moldings and	moldings and
	shanks.	shanks.	shanks.	shanks.	shanks.	shanks.	shanks.	shanks.	shanks.

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)
DAMPERS	Horizontal-cut	Horizontal-cut	Horizontal-cut	Horizontal-cut	Horizontal-cut	Horizontal-cut	Vertical-cut premi-	Horizontal-cut pre-	Horizontal-cut pre-
	premium wool for	um wool for effec-	mium wool for ef-	mium wool for ef-					
	effective dampen-	tive dampening.	fective dampening.	fective dampening.					
	ing. Maple heads	Hornbeam heads	Hornbeam heads	Hornbeam heads					
	for endurance.	for endurance	for endurance	for endurance					
ACTION	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter- sawn maple parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple dowels housed in inflexible seamless brass tubing to assure precise & stable regulation. Exclusive single, combination phosphor bronze repetition & fly spring provides constant, crisp touch response. Specially designed to respond 14% faster fortissimo & 6% faster pianissimo by using an exclusive combination of half-round balance rail bearings and strategically placed key leads.	White, quarter-sawn hornbeam parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple rails. Dependable, Direct-Blow design permits ALL parts of the action to lie above the brass capstan screws.	White, quarter-sawn hornbeam parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple rails. Dependable, Direct-Blow design permits ALL parts of the action to lie above the brass capstan screws.	White, quarter-sawn hornbeam parts are bushed with specially treated wool action cloth for freedom from friction. Parts are anchored in hard maple rails. Dependable, Direct-Blow design permits ALL parts of the action to lie above the brass capstan screws.
KEYS	European spruce,	European spruce,	European spruce,	European spruce,					
	individually	individually	individually	individually	individually	individually	individually	individually	individually
	weighed-off. Chip-	weighed-off. Chip-	weighed-off. Chip-	weighed-off. Chip-					
	proof, stain-	proof, stain-	proof, stain-	proof, stain-					
	resistant coverings	resistant coverings	resistant coverings	resistant coverings					
	for naturals; slip-	for naturals; slip-	for naturals; slip-	for naturals; slip-					
	proof, delicately	proof, delicately	proof, delicately	proof, delicately					
	abraded ebonized	abraded ebonized	abraded ebonized	abraded ebonized					
	sharps. Tough,	sharps. Tough,	sharps. Tough,	sharps. Tough,					
	durable Linden	durable Linden	durable Linden	durable Linden					
	wood buttons	wood buttons	wood buttons	wood buttons					
	reinforce keys	reinforce keys	reinforce keys	reinforce keys					
	over balance rail	over balance rail	over balance rail	over balance rail					
	permitting maxi-	permitting maxi-	permitting maxi-	permitting maxi-					
	mum tonal power	mum tonal power	mum tonal power	mum tonal power					
	with every strike.	with every strike.	with every strike.	with every strike.					
	Longest: 24 1/2"	Longest: 21"	Longest: 19"	Longest: 19"	Longest: 19"	Longest: 19"	Longest: 16 1/8"	Longest: 15 1/2"	Longest: 15 1/2"
	(62.2 cm)	(53.3 cm)	(48.3 cm)	(48.3 cm)	(48.3 cm)	(48.3 cm)	(40.9 cm)	(39.4 cm)	(39.4 cm)

	Model D	Model B	Model A	Model O	Model M	Model S	Model K-52	Model 1098	SHERATON (MODEL 4510)
KEYBED	Made from planks of stable, quarter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mortised into verti- cal planks made of birch, presenting a vented system for humidity escape- ment while allow- ing for necessary expansion and contraction. Front center is crowned contracting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large maple dowel ends provide a solid mount for adjustable brass touch-regulating screws. <b>Thickness:</b> <b>1 3/4" (4.45 cm)</b>	Made from planks of stable, quarter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mortised into verti- cal planks made of birch, presenting a vented system for humidity escape- ment while allow- ing for necessary expansion and contraction. Front center is crowned contrasting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large maple dowel ends provide a solid mount for adjustable brass touch-regulating screws. <b>Thickness:</b> <b>1 3/4" (4.45 cm)</b>	Made from planks of stable, quar- ter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mor- tised into vertical planks, presenting a vented system for humidity escapement while allowing for necessary expansion and contraction. Front center is crowned contrasting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large beech dowel ends provide a solid mount for adjustable brass touch-regulating screws. <b>Thickness:</b> <b>13/4" (4.45 cm)</b>	Made from planks of stable, quar- ter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mor- tised into vertical planks, presenting a vented system for humidity escapement while allowing for necessary expansion and contraction. Front center is crowned contrasting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large beech dowel ends provide a solid mount for adjustable brass touch-regulating screws. <b>Thickness:</b> <b>1 3/4" (4.45 cm)</b>	Made from planks of stable, quar- ter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mor- tised into vertical planks, presenting a vented system for humidity escapement while allowing for necessary expansion and contraction. Front center is crowned contracting the reverse-crowned action frame for snug fit. This design intensifies key movement and prevents "slapping" during heavy playing. Large maple dowel ends provide a solid mount for adjustable brass touch-regulating screws. <b>Thickness:</b> <b>1 3/4" (4.45 cm)</b>	Made from planks of stable, quar- ter-sawn spruce. Horizontal planks are freely mortised together, while their ends are permanently mor- tised into vertical planks, presenting a vented system for humidity escapement while allowing for necessary expansion and contraction. Front center is crowned contracting the reverse-crowned key frame for snug fit. This design in- tensifies key move- ment and prevents "slapping" during heavy playing. Large maple dowel ends provide a solid mount for adjustable brass touch-regulating screws. Thickness: 1 3/4" (4.45 cm)	Made from planks of stable, quar- ter-sawn poplar. Horizontal planks are freely mortised together, while their ends are permanently mor- tised into vertical planks made of birch, presenting a vented system for humidity escapement while allowing for nec- essary expansion and contraction. Hand-milled to be flat and true correlating with keyframe for snug fit. Strong, rugged construction provides a solid mount for key- frame and action allowing for pre- cise and prolonged action regulation. <b>Thickness: 1 3/4"</b> (4.45 cm)	Made from planks of stable, quar- ter-sawn poplar. Horizontal planks are permanently mortised together, while their ends are permanently mortised into vertical planks, presenting a vented system for humidity escape- ment and neces- sary expansion and contraction. Hand-milled to be flat and true correlating with keyframe for snug fit. Strong, rugged construction provides a solid mount for key- frame and action allowing for pre- cise and prolonged action regulation. <b>Thickness: 1 3/4"</b> <b>(4.45 cm)</b>	Made from planks of stable, quar- ter-sawn poplar. Horizontal planks are permanently mortised together, while their ends are permanently mortised into vertical planks, presenting a vented system for humidity escape- ment and neces- sary expansion and contraction. Hand-milled to be flat and true correlating with keyframe for snug fit. Strong, rugged construction provides a solid mount for key- frame and action allowing for pre- cise and prolonged action regulation. <b>Thickness: 1 3/4"</b> <b>(4.45 cm)</b>
PEDALS	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.	Heavy, solid brass. Soft, sustaining, and full sostenuto.



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