



THE STRADIVARI SERIES OF SPEAKERS

OWNER'S MANUAL

Serial Number _____

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INTRODUCTION

Congratulations on choosing Stradivari Speakers. Your speakers have been hand-crafted from the finest parts and materials. The Stradivari Speakers utilize proprietary Cello circuitry and are designed to perform for decades of musical enjoyment.

Until now, music lovers had to choose between speakers with a high degree of transparency and speakers with punch and dynamic range. Some products, attempting to do both, have achieved neither goal. The Stradivari Series from Cello combines transparency with punch and dynamic range, as well as superb imaging, elegant styling and exceptional reliability.

Please read this manual carefully. If you have any questions, contact your Authorized Cello Supplier, or call Customer Service at the factory. It is our wish to assist you in every way, now and in the future.

STRADIVARI SPEAKERS

PRODUCT CONCEPT & DESCRIPTION

Concept Because of Cello's work with major record companies and mastering laboratories, we know that stability (no performance drift), reliability (no down time), and flexibility (ability to play all kinds of music) are essential qualities for professional monitor speakers. Yet, speakers having these attributes generally lack natural tonal qualities. Studio engineers have been forced to live with such speakers because they cannot accept the power handling limitations and other problems of more sonically refined speakers. At the same time, in order to enjoy more natural tonal qualities, music lovers at home have been forced to accept limitations in stability, power handling, dynamic range and reliability. The Strad series is a solution for both studio professionals and home listeners who want it all.

Construction All Strad models are designed and built with the same high level of quality, construction and component parameters. With design considerations for cabinet size and driver array, the hand-finished drivers, crossover boards, wiring and other materials used in all Strad products are of the same high level of quality, construction and component requirements and parameters. The difference between them is the height of the cabinet and the number of drivers and crossover boards. A comparison can be made to string instruments and pianos, which are made with the same quality but are available in various sizes for different requirements.

Strad models feature a vertical in-line array of mid and high frequency drivers on a relatively narrow front panel. On each floor standing model cabinet this front panel is angled in at 15 degrees toward the listening position, so the sides of the speaker stay parallel to side and rear walls, while the face is positioned at the correct angle for optimum performance.

Heavy duty brass bolts are provided for tri-wired speaker connections. Special harnesses of Cello Strings 3 Litz speaker cable are recommended for termination to the power amplifier(s).

PRODUCT CONCEPT & DESCRIPTION (cont.)

Finish Strads are available in either black piano or rosewood finish on standard order. Other custom finishes may be available on request. Black, acoustically-transparent grills are provided. Strads are designed to complement the finest interior appointments and are, themselves, handmade works of art.

Music First, play a recording of a delicate instrument such as a harpsichord. Hear how the Strad reproduces the natural tone, subtleties, complex harmonics, exact attacks, and room ambience rather than impressing you as a large speaker. The clarity is there together with the body of the instrument. There is a presence between the speakers, as there would be in life if the artists were there.

Second, play a recording of human voice or voices. It sounds like human beings making music. Again, the Strad resists the need to impress you with its size and allows the music to provide the impression.

Third, listen to the most dynamic recording of a symphony orchestra playing the Firebird, or a jazz band such as Count Basie.

In concert with Cello electronics and cables, the Strads spring to life, reproducing from triple pianissimo to triple fortissimo with complete ease. If you know the recording, you may find it hard to believe it is the same one because it now sounds so full, uncompressed, and real.

Now you realize that with all kinds of musical recordings the Strads give you what the musicians intended: the full tone, timbre, size and depth of the music. This enables the musical message to come through intact.

Strad Grand Master Like the concert grand, the Grand Master is the largest Strad model. Elegant in dimension, each Grand Master is a towering cabinet with eight tweeters, eight midranges, and two 12" woofers. These drivers enable the Grand Master to move a great quantity of air very quickly, achieving not only very low distortion but a staggering 127dB SPL peak capability.

STRADIVARI SPEAKERS

PRODUCT CONCEPT & DESCRIPTION (cont.)

Since no single driver is required to overwork, a completely effortless reproduction is evident on even the most demanding musical passages. Two separate crossover boards are installed with access at the rear of the speaker. Each crossover provides signals to half the drivers (four mid, four high, and one low frequency driver.). In this way, each board handles half the power being utilized, thus providing superior performance. Exclusive Cello design techniques, including tri-wired, dual crossovers with paralleled drivers and Litz wire, enable the low impedance characteristics of the Grand Master to be driven with optimum results and very little loss of energy.

The Grand Master can be placed in even medium-sized rooms (12x15') (3.65 x 4.60m) provided the ceiling height is adequate. However, the forte of the Grand Master is filling large rooms with clean, clear, natural sound without clipping, distortion, or compression. It has an efficiency of 96 dB (1m @2.83 V). Yet the "footprint" of the Grand Master is quite small so that little room area is taken. They also project sound over furniture, pianos, and other objects that might be in a room.

The Grand Master is designed to be driven by the Performance Amplifier, in single or bridged configuration. Installation requires four strong adults. The Grand Master can be placed on bare floor or on carpet, using spikes or large bases for added stability.

Because it is so revealing, the Grand Master is enhanced by use with the Audio Palette or Palette Preamplifier to allow compensation for tonal balance problems in the recordings (see literature for AP, PP).

Strad Master

The Strad Master is essentially the same as the Grand Master, utilizing four high and mid range drivers instead of eight, and one crossover board. It is an ideal choice when ceiling height, room size, or budget does not allow the choice of the Grand Master. The Master can be driven by any Cello amplifier. Its efficiency level is 90 dB. The Performance Amplifier or Duet 350 will enable the Master to achieve sound pressure levels of 115dB, and in bridged mode, over 120 dB. The Encore Amplifier will provide extremely enjoyable results in many applications as well. The height of the Master is perfect for the normal living room.

PRODUCT CONCEPT & DESCRIPTION (cont.)

Strad Premiere The Strad Premiere is a three way design, including one 12" woofer, one midrange and one tweeter. This gives the Premiere less vertical height (45") (115cm) and makes it the most physically discreet of the floor standing Strad models. The Premiere is built with the same level of drivers, crossover boards, cabinet construction, wiring and quality control as its big brothers. Therefore, the Premiere offers full Cello performance, appearance and reliability. The Premiere can be driven by any Cello amplifier with excellent results and, while extremely transparent and revealing, can produce up to 115dB SPL. Its efficiency is 90 dB. The impedance measures nominally 4 Ohms. Use with the Audio Palette or Palette Preamplifier will enable the listener to compensate for tonal balance problems in the recordings themselves, allowing the full capabilities of the Strad Premiere and associated equipment to be enjoyed.

Strad Legend The Strad Legend is the smallest of the Strad Line of speakers. The Legend is a three way design with one 1" dome tweeter, 3" dome midrange and 12" woofer. Designed as a large bookshelf speaker it can be used on a stand, shelf or as a floor standing speaker. Its acoustic suspension design and specially constructed crossovers provide dynamics and SPLs normally expected in speakers of significantly larger size. The Legend can be driven by any Cello amplifier with remarkable results and creates a compact Cello system when combined with the Cello Encore Amp and Encore Preamp or Palette Preamp.

STRADIVARI SPEAKERS

UNPACKING

The packing crates for the Stradivari Speakers should arrive in good condition. Please look for damage to the crate, although this is most unlikely due to crate construction. Save packing and crates for reuse in the event the units must be shipped in the future.

Warning:

The Strad Speakers are very heavy. Two - three people should be used to move a Premiere and three - four people should be used to move a Master or Grand Master.

STRADIVARI SPEAKERS

CONNECTION

All the Stradivari Speakers have tri-wire capability. This means the high, midrange and low frequency cross-overs have separate inputs. The cross-over inputs are located at the rear of each speaker and are accessed through a total of six 1/4-20 threaded terminals with nuts for each cross-over. These terminals are arranged in three pairs. The top pair is the high frequency section. The middle pair is the midrange section. The bottom pair is the low frequency section. While facing the rear of the speaker the three positive input terminals are on your right and are designated by a red dot. The three negative input terminals are on your left and are designated by a black dot.

The Grand Masters have two cross-over boards and therefore two sets of terminals.

Connect your positive left channel speaker leads to the positive terminals of your left speaker and your negative left channel speaker leads to your negative terminals of your left speaker. Repeat this for the right channel.

Caution: Do not over tighten nuts. Tighten so they are snug then tighten an additional quarter turn.

STRADIVARI SPEAKERS

SELECTION OF SPEAKER CABLES

Any high quality speaker cables may be used. For optimal operation we recommend Cello String #3 or Cello String #2 for connection to amplifiers. Cello Strings #3 constructed into triwire harnesses are recommended for Masters and Grand Masters.

CELLO STRING #2 is a high quality speaker cable comprised of a large number of very fine conductors in a red or black jacket. Triwire harnesses consisting of three red and three black wires in an expando jacket are available for use with Stradivari speakers.

CELLO STRING #3 is a heavy Litz construction speaker cable for the ultimate in power amplifier signal transmission. It is composed of two large Litz wire conductors separated by a .2 inch web.

MAINTENANCE

The finish of the Stradavari Speakers is a clear laquer over wood or over piano black polyester paint.

Ammonia based glass cleaner and a soft cloth work well to preserve shine and remove finger prints.

CAUTION: Make sure not to use any cleaners or polishes with abrasives as these may damage the finish.

When cleaning, wipe in a circular motion and do not rub too forcefully.

STRADIVARI SPEAKERS

CELLO LIMITED WARRANTY

Parts: Cello warranties all mechanical parts for five years and electronic parts for life.

Labor: Labor is the responsibility of the distributor except for the following:

Any defective product during the first year shall be repaired by the distributor with labor paid by Cello according to factory rates for a given repair. At Cello's discretion, or if the distributor is unable to perform the repair, the unit may be returned to the factory for service using agreed-upon air freight. After repair, the unit will be returned by the same carrier or equivalent. During years 2-5, if the distributor is unable to perform the repair Cello will pay return air freight from the factory by agreed upon carrier provided the unit was shipped to the factory with air freight prepaid.

Cello will not pay freight if units are returned without a Return Authorization number (RA#). Cello will not pay freight if units are found to be in perfect working order.

Warranty of Repair Work

Performed: Any specific repairs or modifications effected by the factory or authorized service facility shall be guaranteed for 100% parts and labor for the remainder of the warranty period for the unit or one year (whichever is longer), except for electronic parts which carry a lifetime warranty.

Product Registration &

Transferability: Distributors shall fill out the form on the outside of the carton when the goods are delivered to the retailer. The form should be sent to

Cello, Limited. Warranty cards inside the box shall be completed by the retailer and customer respectively and returned to Cello, Limited within 30 days from the date of the sale to the customer.

All products must be registered. When sold, new owners must be registered for the transfer of the warranty to be effected. All warranties are transferable to any succession of subsequent registered owners. Please contact you nearest authorized Cello supplier or the Customer Service Department at the factory for details of subsequent owner warranty registration.

Tampering/Abuse/Misuse: Any unauthorized modifications, repairs or tampering, and/or any indications of obvious owner abuse, negligence or improper usage, as determined by Cello, Limited shall be grounds to void the warranty.

Service: If you believe your Cello equipment is not functioning properly, please call the Customer Service department at the factory. If you need to return your component, you will be given an R/A (return authorization) number. This number must appear on the outside of the shipping boxes. Returns without R/A numbers will not be accepted. Returns received in original Cello packaging will be returned in original packing. Returns received in non-Cello packing will be returned in new Cello packaging at the owner's expense. If you need replacement packing materials, please contact the Customer Service Department at the factory.

STRADIVARI SPEAKERS**SPECIFICATIONS**

	GRAND MASTER	MASTER	PREMIERE	LEGEND
HEIGHT	86.5" 220 cm	61.5" 157 cm	45" 115 cm	26 1/4" 67 cm
WIDTH	17" 44 cm	17" 44 cm	17" 44 cm	14" 36 cm
DEPTH	18" 46 cm	18" 46 cm	18" 46 cm	12" 31 cm
WEIGHT/EA	500 226 kg	370 169 kg	260 119 kg	80 37 kg
TWEETERS	3/4" (8)	3/4" (4)	1" (1)	1" (1)
MID RANGES	2" (8)	2" (4)	3" (1)	3" (1)
WOOFERS	12" (2)	12" (2)	12" (1)	12" (1)
DESIGN	Accoustic Suspension	Accoustic Suspension	Vario Vent	Accoustic Suspension
MINIMUM DRIVING POWER	200 w/ch	200 w/ch	50 w/ch	50 w/ch
IMPEDENCE				
NOMINAL	2 ohms	3 ohms	6 ohms	6 ohms
MINIMAL	1 ohm	2 ohms	4 ohms	4 ohms
CROSSOVER FREQUENCIES	500 Hz 5000 Hz	500 Hz 5000 Hz	500 Hz 7000 Hz	500 Hz 5000 Hz
SPL EFFICIENCY	127 dB 96 dB	115 dB 90 dB	115 dB 90 dB	

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