

Steinway & Sons Model D  
**INSTALLATION  
MANUAL**

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# INTRODUCTION TO THE MODEL D

## **Safety Warning**

### ***Physical Handling***

The Model D loudspeakers are very heavy and large. They can be difficult to handle. Follow all instructions for unpacking and installation. Use ergonomically correct body positions. Be careful not to unbalance the large speaker systems during handling. Steinway Lyngdorf cannot be held responsible for any physical damage which occurs during the installation process.

The loudspeakers weigh 176 kilos (384 lbs) each. Therefore, a minimum of four people will be necessary to unpack and install the system.

## UNPACKING MODEL D SPEAKERS

Each crate holds a single Model D loudspeaker mounted on transport panels on top and bottom, which secures the loudspeakers during transportation as well is of use when lifting the loudspeaker into its final position.

The crates have been assembled using the Clip-Lok packaging system. The tool for removing the clips is in the foot of the crate.

Once you have unclipped the box, remove the top. With the speakers you will also find the following items:

- Dolly Cart for moving the speaker
- A piece of carpet for pulling the speaker over even surfaces
- Metal bars for lifting the speaker
- Allen Key, Hex4, for mounting the decorative side panels
- Spike Kit holding both pointed and rubber pad spikes
- Speakon Plug, NL4FC
- Cable for connecting the Model A1 amplifier to the speaker

If the speakers are part of a total Model D System, the crate might also include the Model A1 amplifier.

The crate holds the tool for opening in the corner foot



During moving and handling, do not tilt the boxes more than 90 degrees. It might be best to unpack the system outside the building in which the installation is to be made.

The crates have been assembled using the Clip-Lok packaging system. The clips must be removed with the tool supplied inside the corner of the boxes as illustrated.



Pull out the Clip-Lok opening tool by using two fingers.



Place the tool behind the clip. Use your other hand to keep the clip in place when you unlock it. Otherwise the clip may cause damage when it springs out of grip.

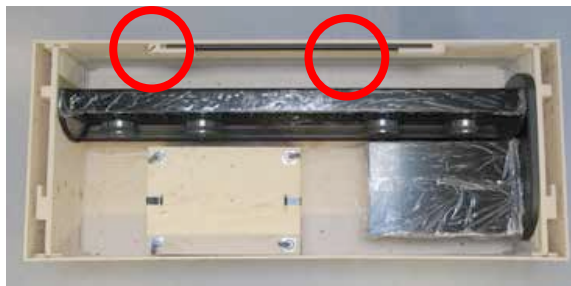
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**WARNING:**

*Be very careful when you unlock the clips. They are firmly fixed and may cause damage when they spring open, unless you keep the clips in place with your free hand as illustrated is active.*

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Once you have unclipped the box, remove the top. The speakers are bolted to two wooden plates equipped with handles and lifting points. In the right channel speaker box, in a small compartment on the speaker front facing wall, you will find two levers for later moving usage and an Unbraco fastener for removing the transport fittings on top and bottom of the speakers.



You will find a Hex/Allen (Unbraco) key and two steel levers inside the box. The levers are for moving the speaker when it has been unpacked. The key is for removing the transport fittings at top and bottom of the speakers.

After unclipping the top of the crate, remove the side wall as illustrated. The speakers are bolted to two wooden plates equipped with handles and lifting points. Carefully slide out the speakers and place them firmly on the ground. Using the supplied steel levers, you can now carry the loudspeaker. The levers are located in a room on top of one of the crate walls. Place them in the transport fittings as shown. Four people will now be able to move the speaker securely into the installation site. Do not remove the protective foil before final placement! Remove your watches, buckles, rings etc. before handling the lacquered system components.



Carefully slide out the speaker from the opened box.

Carefully lift the speaker completely out of the box. You can now move it using the supplied levers.





Place the steel levers into the lifting points like this.



### **Removing Speaker Shipping Protection**

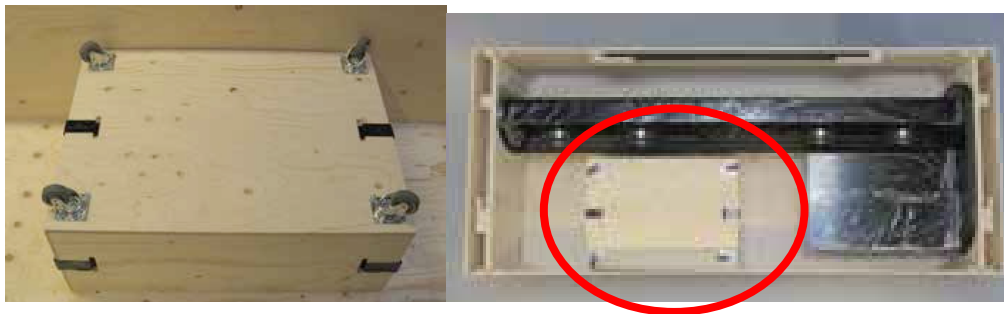
The speaker stand is extremely heavy. To avoid potential damage when removing the transport protection plate, place one of the foam protection plates from the shipping crate below the speaker stand for secure support. Use the supplied Unbraco (Hex/Allen) key to release the bolts.





### Using a Dolly for Moving the Speakers

Included in the packaging is a dolly cart with four multi-directional wheels. It is placed as a lid above the amplifier module compartment in the right speaker crate. You can use the dolly for moving the speakers into and inside of the place of installation. Unlock the Clip-Lok clips following the instructions on page 8 and the dolly can be taken out of the crate.



### Spikes

The speakers are designed to stand on each four spikes or feet. The system accessories box contains three mounting options.

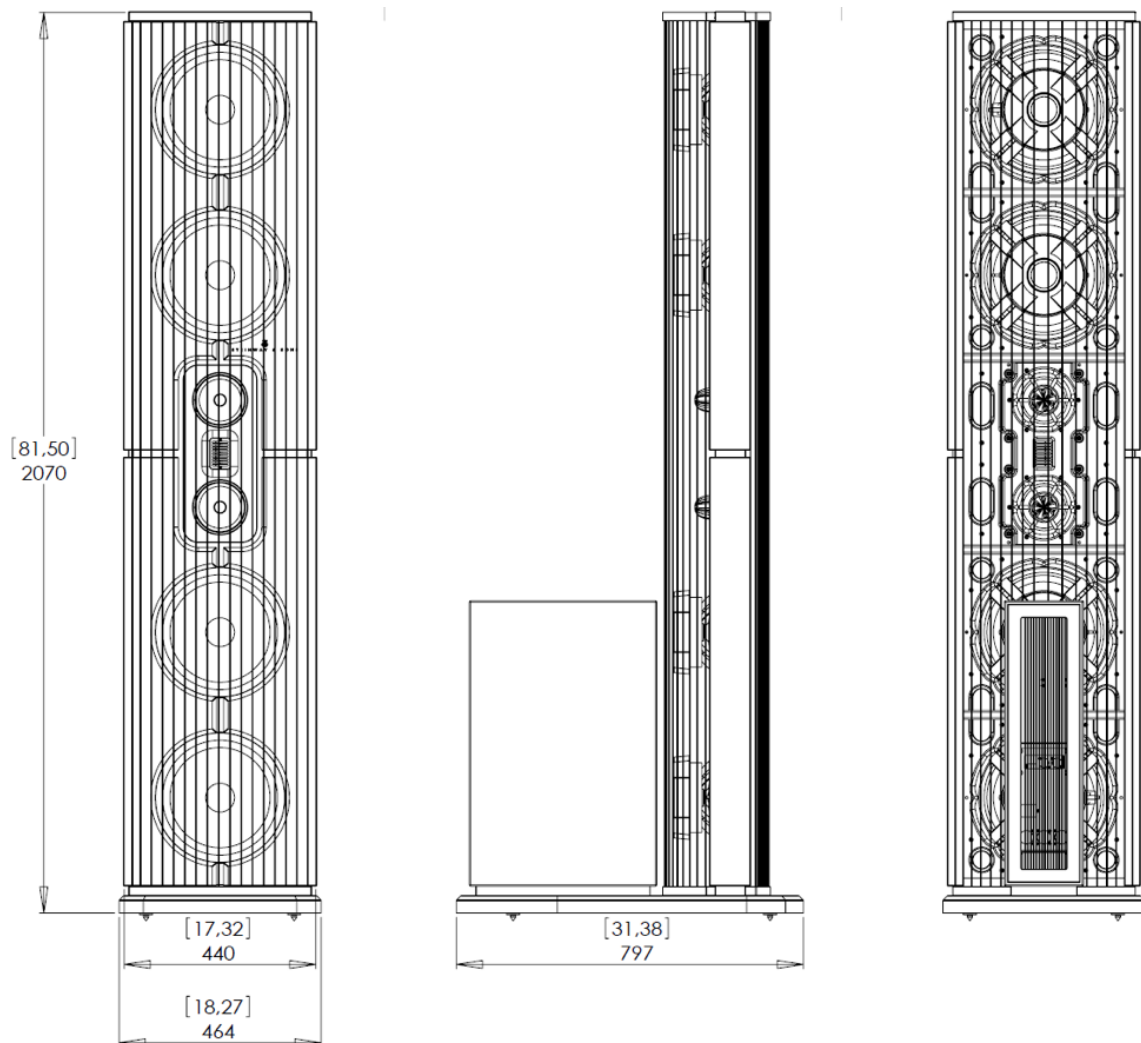
- a. 28 mm high spikes for wooden floors or floors covered with ordinary carpet.
- b. 48 mm high spikes for floors covered by thick carpet.
- c. Non-penetrating feet mainly for marble, granite or similar floor materials.



Spikes are the most stable option but might cause damage to the floor below; therefore, the use of spikes will be each customer's own responsibility. Steinway Lyngdorf cannot take any responsibility for any damages caused by spikes. Choose the non-penetrable feet if there are any concerns about potential harm to floors.

NOTE: The feet have rubber facing to protect the floor. Do not push or drag the speakers when they are standing on the feet, as the rubber may be ripped off and damage may occur to the floor.

Dimensions:





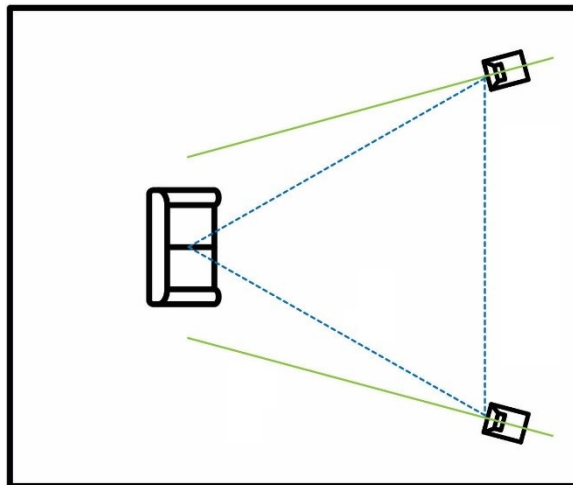
# SYSTEM PLACEMENT IN THE ROOM

## Guidelines for Room Placement

Regardless of speaker positioning, the RoomPerfect™ calibration system will always ensure that the frequency response in the listening position remains the same from both speakers.

Always use your ears for positioning the speakers, but for perfect performance we have the following recommendations:

- The setup should be in accordance with the basic stereo triangle (60x60x60 degrees)
- The speaker should be located at least 1 meter or 3.3 feet away from rear walls.
- The speaker should be located at least 1.5 meter or 4.8 feet away from side walls.
- Both speakers should have the same amount of side reflections, i.e. symmetrical positions in the room relative to adjacent walls.
- The speakers should be toed-in towards the primary listening position by 5-15 degrees, but they should not be aimed directly at your ears. The wider the setup is, the more you need to adjust the toe-in:



If a symmetrical position is impossible and the distance from each speaker to the listening position is different, then this can be compensated digitally by adjusting the setup in the processor. The speaker should be moved back following the guide-lines for toe-in.

# CONNECTION OF EQUIPMENT

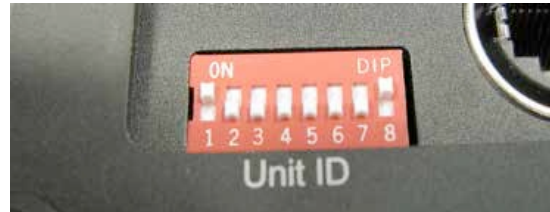
## Speaker Cable Wiring

The Model D Speaker holds an A1 amplifier in the box behind the speaker. The amplifier connects to the speaker through wires fitted with speakON connectors.

## A1 DIP Switchboard Addressing

The DIP switchboard on the back of each A1 amplifier must be set for correct identification of the speaker connected to it. See next page for traditional stereo setup.

If the speakers are part of a multi-channel setup, you will receive a wiring diagram dedicated to your specific setup.



## Daisy-Chaining

The two Model A1 amplifiers can be connected in Daisy-Chain – one cable from LINK A output from the processor to Steinway Link IN on the first A1 amplifier (ID#0) – one cable from Steinway Link OUT on the first A1 amplifier (ID#0) to Steinway Link IN on the second A1 amplifier (ID#1)

DIP 8 must be adjusted for either termination or transmission. Switch DIP 8 to lower position on the first A1 amplifier (ID#0). Switch to upper position on the second A1 amplifier (ID#1).

## Left Side / Stereo Setup



A Model A1 amplifier is powering the Model D speaker. The amplifier is mounted together with the crossover for the mid-high section in a chassis, which is fixed to the top of the box with two M4 screws.

The adapter cable to the amplifier is included with the speaker, and you need to connect the Model A1 to your processor through a Steinway Link cable.

The Model A1 amplifier must be connected to your local mains power supply. Make sure to set the voltage selector to the correct setting before turning the system on.

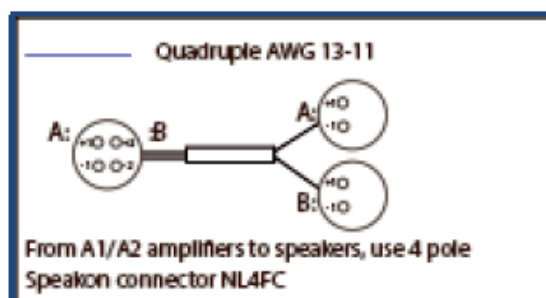
The dip switch on the Model A1 must be:

ID#0  
LEFT



The switch 8 is activated, as the link is terminated - as in this suggested setup, the speakers are on separate link outputs, and not connected as a daisy chain to a single link output.

The adaptor cable configuration:



## Right Side / Stereo Setup



A Model A1 amplifier is powering the Model D speaker. The amplifier is mounted together with the crossover for the mid-high section in a chassis, which is fixed to the top of the box with two M4 screws.

The adapter cable to the amplifier is included with the speaker, and you need to connect the Model A1 to your processor through a Steinway Link cable.

The Model A1 amplifier must be connected to your local mains power supply. Make sure to set the voltage selector to the correct setting before turning the system on.

The dip switch on the Model A1 must be:

ID#1  
RIGHT



The switch 8 is activated, as the link is terminated - as in this suggested setup, the speakers are on separate link outputs, and not connected as a daisy chain to a single link output.

## ROOM CORRECTION INTRODUCTION

Why do you need room correction? The characteristics of your room affect the sound that reaches your ears. In any system, more than 50% of the sound you hear comes from the contribution of the room, echoes, reflections, absorption, and the like.

Follow the instructions of the Installation Manual of the processor, but note that during measurements, you can work, talk and move around in the room. But the measurements will last longer depending on the level of background noise.

## CLEANING THE SPEAKER

Polish the system for perfect appearance with a micro fiber cloth. Dust and fingerprints are highly visible on the black piano gloss lacquer. If necessary, moisten your cloth with distilled or demineralized water only.

DO NOT use ordinary furniture polish or cleaning agents as these usually contain wax or silicone that may cause damage to the surfaces.

## STORING THE SPEAKER

The Model D features wooden constructions with high gloss lacquered finish as well as high end electronics. Electronics as well as wooden constructions are vulnerable for sudden changes in temperature as this will cause cracks in the wooden constructions and cause serious degradation of the lifetime of the electronic circuitry.

The products should thus be kept and stored in stable conditions with temperatures between 10° to 25° Celsius and with a relative humidity level between 50% and 55%.

## REPACKING OF MODEL D MUSIC SYSTEM

In case the system components are to be moved to another location repacking into the original shipping crates is necessary, as the weight and vulnerable surfaces are causes of concern.

## SERVICE INFORMATION

To obtain warranty service, you must contact your original dealer or the Steinway Lyngdorf distributor of the region or country where you are located. If you have trouble locating an authorized representative, please find contact information at [www.steinwaylyngdorf.com](http://www.steinwaylyngdorf.com),

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In some cases, it may be necessary to return the equipment to Steinway Lyngdorf or an authorized service provider for repair; therefore, it is recommended that you save your original packing materials. Steinway Lyngdorf will not be responsible for any damage due to unauthorized packing or shipment in non-original packing materials. If return is made in authorized packaging, risks are borne by Steinway Lyngdorf. Additional charges may occur if new packing materials are required for return shipment.

