
S T E I N W A Y L Y N G D O R F

MODEL A1/A2 FULLY DIGITAL AMPLIFIER

INSTALLATION MANUAL

VERSION 1.1

TABLE OF CONTENTS

TABLE OF CONTENTS	2
INTRODUCTION.....	3
COMPLIANCE	3
PRE-INSTALLATION	4
OPERATING VOLTAGE	5
VENTILATION REQUIREMENTS.....	5
CABLE CONNECTIONS	5
INSTALLATION.....	6
INSTALLING RACK MOUNTS.....	7
POWER SUPPLY SPECIFICATIONS.....	8
TRADEMARKS	10
SERVICE INFORMATION	11

INTRODUCTION

This Installation Manual was created to assist you with setting up and using your Steinway Lyngdorf electronics and accessories.

Please read all material carefully prior to installation or first use of your Steinway Lyngdorf product. If you need additional assistance, contact your Steinway Lyngdorf representative or email service@steinwaylyngdorf.com.

COMPLIANCE

WEEE

The European Parliament and the Council of the European Union have issued the Waste Electrical and Electronic Equipment Directive. The purpose of the Directive is to prevent waste of electrical and electronic equipment and to promote reuse, recycling, and other forms of waste recovery. Steinway Lyngdorf products and the accessories packed with them are subject to the WEEE Directive. Please dispose of any waste materials in accordance with your local recycling regulations. Products and equipment which must be collected for reuse, recycling, and other forms of recovery are marked with the icon of the crossed-out waste receptacle.



FCC

Steinway Lyngdorf products and accessories comply with parts 15 and 68 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including any interference that may cause undesired operation. Model A1/A2 amplifier and Model P1 processor contain TX FCC ID: TYOJN5139M0

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed.

PRE-INSTALLATION

Unpacking the product

Carefully remove the unit and accessory kit from the carton and visually check for shipping damage. Contact both the shipper and your Steinway Lyngdorf representative immediately if the unit bears any sign of damage from mishandling. Note: Keep shipping carton and packing material for future use or in the unlikely event that the unit needs servicing. If this unit is shipped without the original packing, damage could occur and void the warranty.

Inventory

Check the list below to ensure that all necessary product components have been delivered. Report all discrepancies to your Steinway Lyngdorf representative immediately.

- Amplifier
- Installation Manual
- Link cable
- Power cord

LED Signaling

Red:	Standby
Green:	On
Orange:	Switching on or off
Blinking red:	Error

The blinking red LED indicates that the amplifier has shut down. This can be caused by several factors, including overheating, short-circuiting of the speaker output, or hardware failure.

OPERATING VOLTAGE

Steinway Lyngdorf amplifiers must be connected to the mains power system only.

⚠ Note: it is of utmost importance that the mains voltage switch is set appropriately. Turning the Model A1/A2 on with the incorrect voltage setting will cause serious damage to the amplifier.

VENTILATION REQUIREMENTS

Steinway Lyngdorf amplifiers do not have built-in ventilation, nor do they need any special cooling systems for heat dissipation. When mounting amplifiers in a rack, never arrange more than three directly atop each other without any spacing. A minimum of one unit of spacing between each stack of three amplifiers is recommended.

When installing the amplifiers in an open cabinet or elsewhere without rack mounts, keep a minimum clearance of one inch on all sides. Do not install the amplifiers in an environment that will expose them to excessive heat.

CABLE CONNECTIONS

Cables and Plugs

Use only the power cables included with the amplifier when connecting it to the mains. For your home theater system, use only mains cables and power plugs approved by Steinway Lyngdorf. Using other cable and/or plug types will void the warranty and may cause damage to the system.

Connecting

For cabling between the processor and amplifiers, please use RJ45 to RJ45 B standard cables.

- For cable lengths less than 1 meter, use CAT5E/shielded CAT6 cable.
- For cable lengths in excess of 1 meter, use double-shielded CAT5E cables.
- All RJ45 connectors should be shielded.

Please refer to the wiring diagram supplied by Steinway Lyngdorf to determine which cables you need. Poor quality cables may violate safety/ EMC regulations as well as cause significant noise and interference. Use only cables and connectors approved by Steinway Lyngdorf.



INSTALLATION

To properly set up the amplifier, please follow these steps, in this order:

1. Set the voltage switch to the correct mains voltage.
2. Assign ID to the amplifier.
3. Connect the Steinway Lyngdorf input and output link cables.
4. Connect speaker outputs.
5. Turn on the amplifier and proceed with setting up the processor.

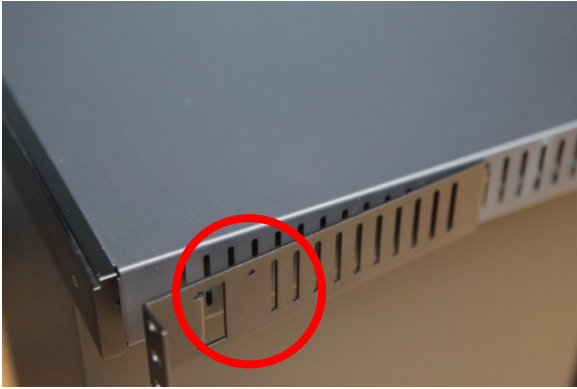
Assigning ID Codes to the amplifier

Assign the correct ID code to each amplifier using the binary switch panel found on the back. An overview of the proper ID codes for the installation can be found in the project-specific wiring diagram supplied by Steinway Lyngdorf.

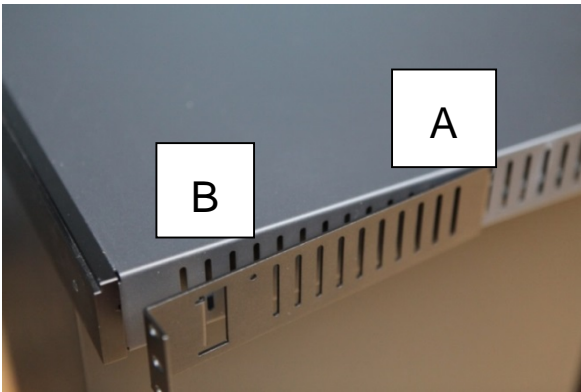


INSTALLING RACK MOUNTS

1. The bracket must be mounted with the hole facing upwards.



2. Insert the bracket into the amplifier's side slots. The bracket must be inserted into the back slot first (A), then the front slot (B).



3. Push the plastic pin into the hole to secure the bracket.



POWER SUPPLY SPECIFICATIONS

MODEL A1

Power supply type		SMPS (manual voltage selection)
Power input voltage		100-120V AC/220-240V AC
Power input frequency		50-60Hz
Overload protection		Yes
Over-temperature protection		Yes
Heat output	at standby	1 W
	at idle	25 W ~ 85 BTU
	at idle, max volume	45 W ~ 155 BTU
	At "normal" movie material over long periods	Approx. 55 W ~ 187 BTU
Power consumption per amplifier	at standby	1 W ~ 8 mA for 120 V ~ 4 mA for 230 V
	Maximum mains power draw per amplifier connected to boundary woofers	700 W ~ 5.8 A for 120 V ~ 2.9 A for 230 V
	Maximum mains power draw per amplifier connected to channel speakers	500 W ~ 4.2 A for 120 V ~ 2.1 A for 230 V
	Average mains power draw per amplifier connected to boundary woofers	500 W ~ 4.2 A for 120 V ~ 2.1 A for 230 V
	Average mains power draw per amplifier connected to channel speakers	350 W ~ 2.9 A for 120 V ~ 1.5 A for 230 V

MODEL A2

Power supply type		SMPS (manual voltage selection)
Power input voltage		100-120V AC/220-240V AC
Power input frequency		50-60Hz
Overload protection		Yes
Over-temperature protection		Yes
Heat output	at standby	1 W
	at idle	25 W ~ 85 BTU
	at idle, max volume	45 W ~ 155 BTU
	At "normal" movie material over long periods	Approx. 70 W ~ 221 BTU
Peak cycle by cycle current drawn from mains		
	230, 50Hz	30A
	120V, 60Hz	40A

Power Input vs Power Output

All 4 channels are driven. A2 output bridge voltage at max. 4 Ohm loads. Irms[A] is mains current. PF is Power factor. Eta is Efficiency.

230V, 50Hz:

Pout [W]:	Pin [W]:	Mains Irms [A]:	PF:	Eta [%]:
0	38,8	0,35	0,48	0
4 x 10	82,7	0,73	0,5	48,4
4 x 25	147	1,2	0,52	68,0
4 x 50	258	2,1	0,54	77,5
4 x 75	375	3,0	0,55	80
4 x 100	499	3,8	0,56	80,2
4 x 150	740	5,7	0,57	81,1
4 x 200	987	7,4	0,58	81,1

120V, 60Hz:

Pout [W]:	Pin [W]:	Mains Irms [A]:	PF:	Eta [%]:
0	38,8	0,57	0,57	0
4 x 10	87	1,2	0,59	46
4 x 25	148	2,0	0,62	67,6
4 x 50	262	3,5	0,63	76,3
4 x 75	382	5,1	0,64	78,5
4 x 100	502	6,6	0,65	79,7
4 x 150	773	9,8	0,67	77,6
4 x 200	1050	12,9	0,7	76,2

TRADEMARKS

DTS is a registered trademark & the DTS logos and Symbol are trademarks of DTS, Inc. Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD Master Audio are trademarks of DTS, Inc. © 1996-2014 DTS, Inc. All Rights Reserved.

HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

This product incorporates technology that is protected by U.S. patents and other intellectual property rights. Use of this technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

SERVICE INFORMATION

In order 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 contact the Steinway Lyngdorf Customer Service Department using the contact information at www.steinwaylyngdorf.com, or you may email service@steinwaylyngdorf.com.

Steinway Lyngdorf

Ulvevej 28

DK 7800 Skive

Denmark

Service Hotline: +45 4084 2230

Fax: +45 9614 5601

In some cases, the Customer Service Department may solve a service problem without the need of repair or any other measures, thereby avoiding further inconvenience or delay. 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.