

behringer 636 Spring Reverb Module User Guide

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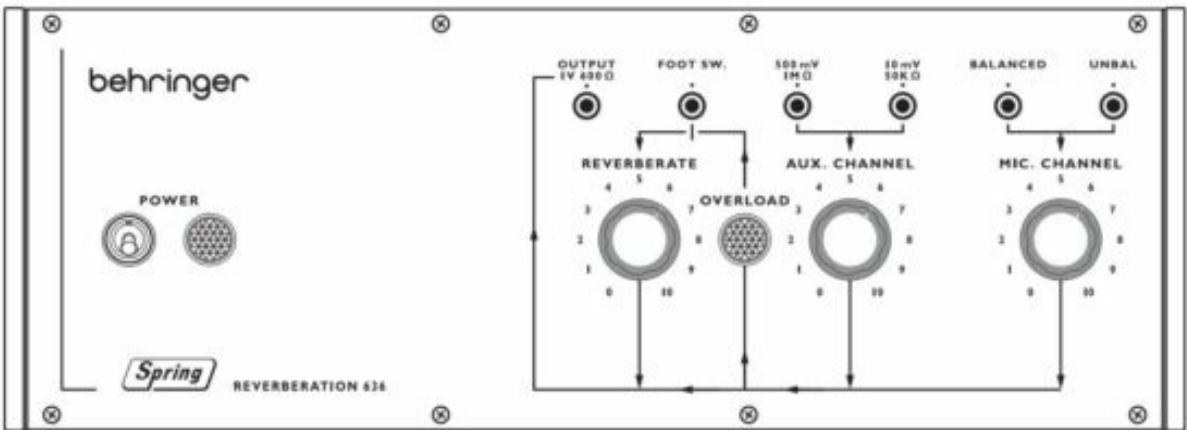
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SPRING REVERBERATION 636

Legendary Spring Reverb with Overload Circuit in Eurorack Format



Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with 1/4" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure

– voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside.

Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions.

Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.
A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE).
The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

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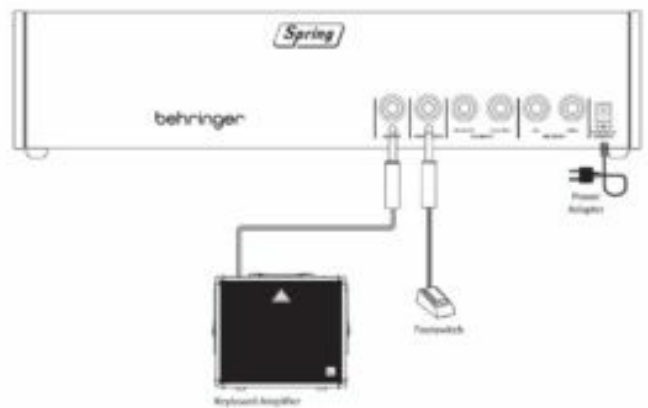
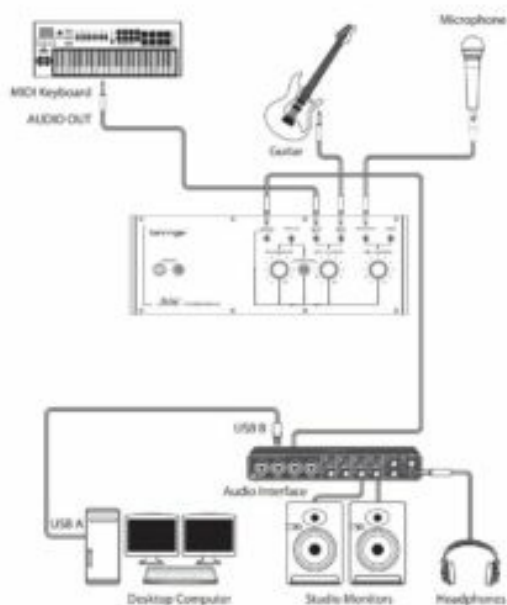
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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at community.musictribe.com/pages/support#warranty.

SPRING REVERBERATION 636 Hook-Up

Step 1: Hook-Up



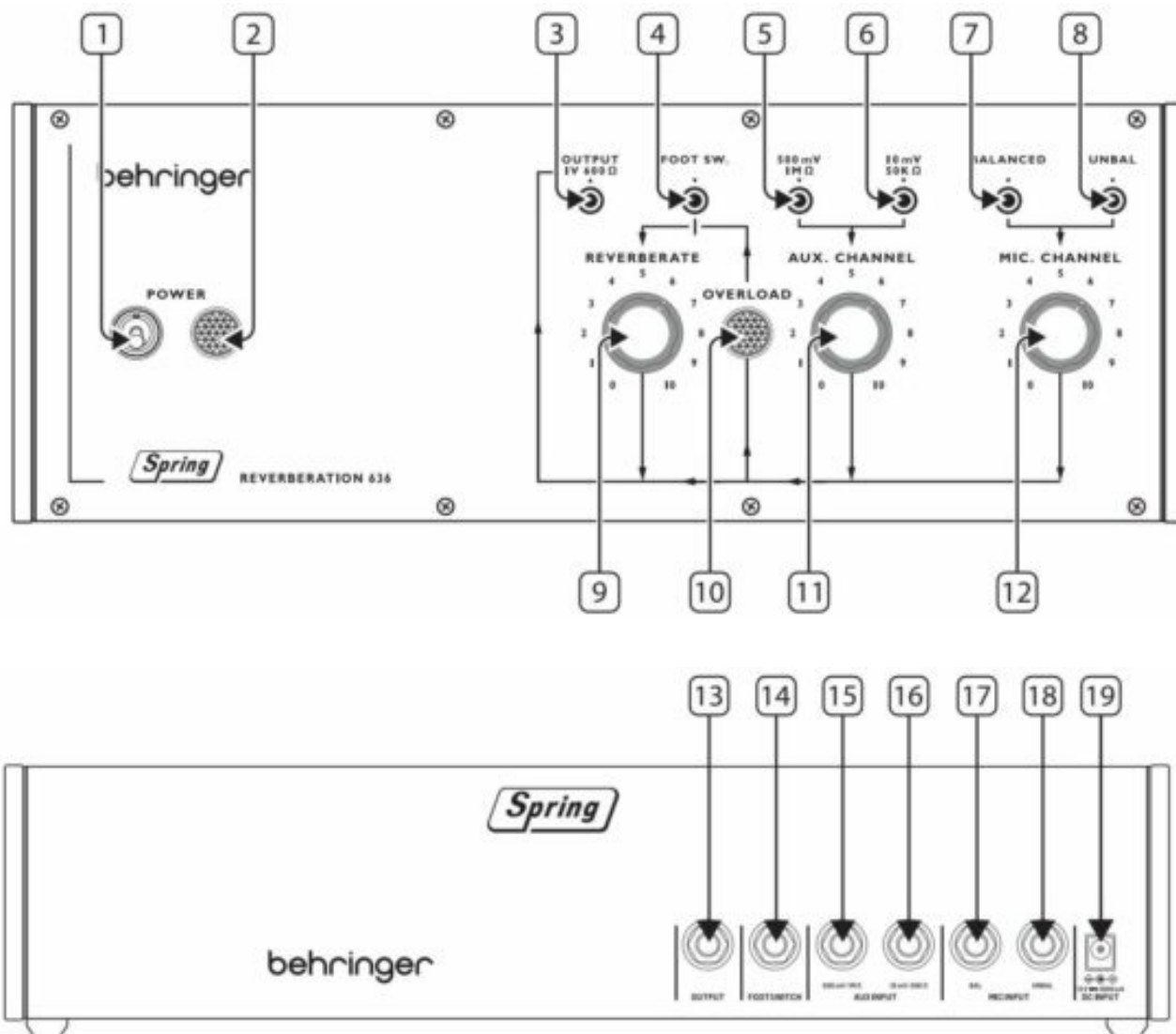
Step 2: Controls

SPRING LINES

We recommend that the Spring Type 636 is mounted in a place where it will not be knocked or subject to vibration to avoid unwanted noise from the spring lines.

Top Panel

1. POWER SWITCH
2. POWER INDICATOR
3. OUTPUT SOCKET – use this 3.5mm TS jack socket to connect the Type 636 to amplifiers, mixing desks or audio interfaces.
4. FOOTSWITCH INPUT – use this socket to connect a suitable footswitch to bypass the reverberation effect.
5. HIGH LEVEL LINE INPUT – use this socket to connect high level audio sources such as keyboards or mixing desks to the Type 636.
6. LOW LEVEL LINE INPUT – use this socket to connect low level audio sources such as guitars to the Type 636.
7. BALANCED MICROPHONE INPUT – use this socket to connect balanced microphones to the Type 636.
8. UNBALANCED MICROPHONE INPUT – use this socket to connect unbalanced microphones to the Type 636.
9. REVERBERATE – use this control to set the reverberation output level.
10. OVERLOAD INDICATOR – this indicator lights up when a signal on either input is overloading.
11. AUX CHANNEL – use this control to set the input level for line sources connected to the auxiliary channel.
12. MIC CHANNEL – use this control to set the input level for microphone(s) connected to the microphone channel.



Back Panel

13. OUTPUT SOCKET – use this 6.35mm TS jack socket to connect the Type 636 to amplifiers, mixing desks or audio interfaces. Duplicates socket 3 on top panel.

14. FOOTSWITCH INPUT – use this socket to connect a suitable footswitch to bypass the reverberation effect. Duplicates socket 4 on top panel.

15. HIGH LEVEL LINE INPUT – use this socket to connect high level audio sources such as keyboards or mixing desks to the Type 636. Duplicates socket 5 on top panel.

16. LOW LEVEL LINE INPUT – use this socket to connect low level audio sources such as guitars to the Type 636. Duplicates socket 6 on top panel.

17. BALANCED MICROPHONE INPUT – use this socket to connect balanced microphones to the Type 636. Duplicates socket 7 on top panel.

18. UNBALANCED MICROPHONE INPUT – use this socket to connect unbalanced microphones to the Type 636. Duplicates socket 8 on top panel.

19. DC POWER INPUT – use this socket to connect the supplied 12 V DC power supply.

Eurorack Installation

The Spring Type 636 can be taken out of its factory chassis and fitted into a standard Eurorack case (not supplied). We recommend that this procedure is carried out only by an experienced service technician to prevent personal injury or damage to the Spring Type 636. The Eurorack case will need to have a suitable power supply with enough capacity to power the Spring Type 636. Consumption is 1 amp at 12 V DC.

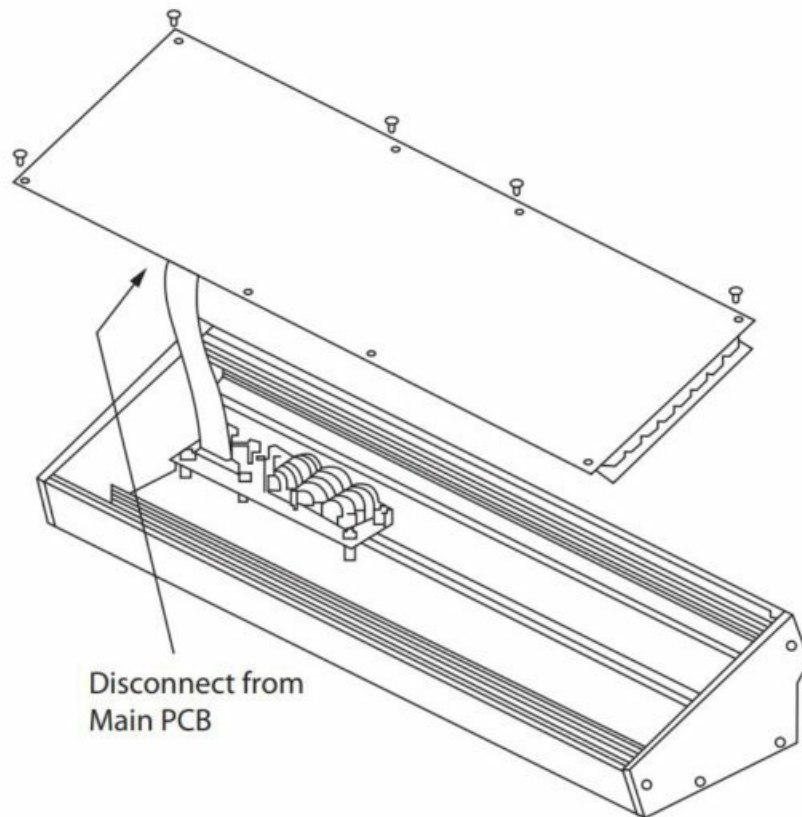
A 10 pin to 16 pin adapter ribbon cable is supplied with the Spring Type 636.

Please ensure that the Eurorack case will supply ± 12 V DC and ground to the correct pins, and that the cable is at the correct orientation before proceeding.

Procedure

Please follow all steps in the correct order.

1. Disconnect the power and all other connections to the Spring Type 636.
2. Undo the eight screws on the top panel as shown. There is no need to undo any other screw.
3. Carefully lift the top panel assembly, and turn it over so that the PCB is facing upwards. Be careful not to pull the ribbon cable from the lower side of the main PCB.
4. Disconnect the 24 pin ribbon cable from the main PCB of the Spring Type 636 and remove the assembly from the chassis.



5. Store the chassis assembly and power supply in a safe, dry place.
6. Securely connect the 10 pin end of the supplied ribbon cable adapter to the main PCB of the Spring Type 636.
7. Having ensured that your Eurorack case is isolated from the mains connect the 16 pin end of the ribbon cable to a spare outlet in the case.
8. Secure the Spring Type 636 to the case using the eight panel screws.
9. Perform a full safety test before using the Spring Type 636.

SPRING REVERBERATION 636 Getting started

Step 3: Getting Started

OVERVIEW

This 'getting started' guide will help you set up your Spring Type 636 and briefly introduce its capabilities.

CONNECTION

To connect the Spring Type 636 to your system, please consult the connection guide earlier in this document.

HARDWARE SETUP

Make all the connections in your system. Keep the Spring Type 636 power turned off when making any connections.

Ensure your sound system is turned down.

Turn on the Spring Type 636 before turning on any power amplifiers and turn it off last. This will help prevent any turn on or turn off “pops or thumps” in your speakers.

WARM UP TIME

We recommend leaving 15 minutes or more time for the Spring Type 636 to warm up before recording or live performance. (Longer if it has been brought in from the cold.) This will allow the precision analog circuits time to reach their normal operating temperature and tuned performance.

Specifications

Inputs	
Balanced Microphone x 2	25 Ω 20 μ v sensitivity
Unbalanced Microphone x 2	25 Ω 20 μ v sensitivity
High Level Auxilliary x 2	1 M Ω 500 mv sensitivity
Low Level Auxilliary x 2	50 k Ω 10 mv sensitivity
Outputs	
Unbalanced line level x 2	600 Ω -8 dBm Program Level
	+2 dBm Maximum Level
Controls	
Switches	Power (top panel)
Knobs	Reverberate
	Aux Channel
	Mic Channel
Sockets	Mute Footswitch x 2

Specifications	
Frequency Response	±2 dB 35 Hz - 20 kHz
Reverberation Delay	29 - 37 ms nominal
Reverberation Time	2 seconds at 300 Hz
Reverberation Response	±3 dB 100 Hz - 6 kHz
Size	37.37 x 13.56 x 8.64 cm (14.71 x 5.34 x 3.40") 72 hp when in Eurorack
Weight	1.58 kg (3.48 lb)
Consumption	1000 mA 12 V DC

Other important information

1. Register online.

Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your

Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at musictribe.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at musictribe.com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.

3. Power Connections.

Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Behringer

SPRING REVERBERATION 636

Responsible Party Name: Music Tribe Commercial NV Inc.

Address:

122 E. 42nd St.1,
8th Floor NY, NY 10168,
United States

Email Address:

SPRING REVERBERATION 636

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 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 interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.



Hereby, Music Tribe declares that this product is in compliance with Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

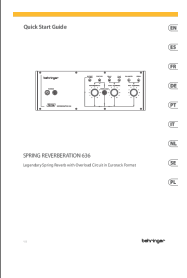
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