

# BLACK SPRING REVERB

## THANK YOU FOR PURCHASING ERICA SYNTHS BLACK SERIES MODULE!

Erica Black Series include high-end, unique functionality and superior quality modules. Only the best, highest quality components are used, all inputs and outputs are protected against undesired overvoltage. When designing Black Series, we put design and usability superior. Big knobs are assigned to key functions of the module, which makes Black Series ideal for live performances. Enjoy!

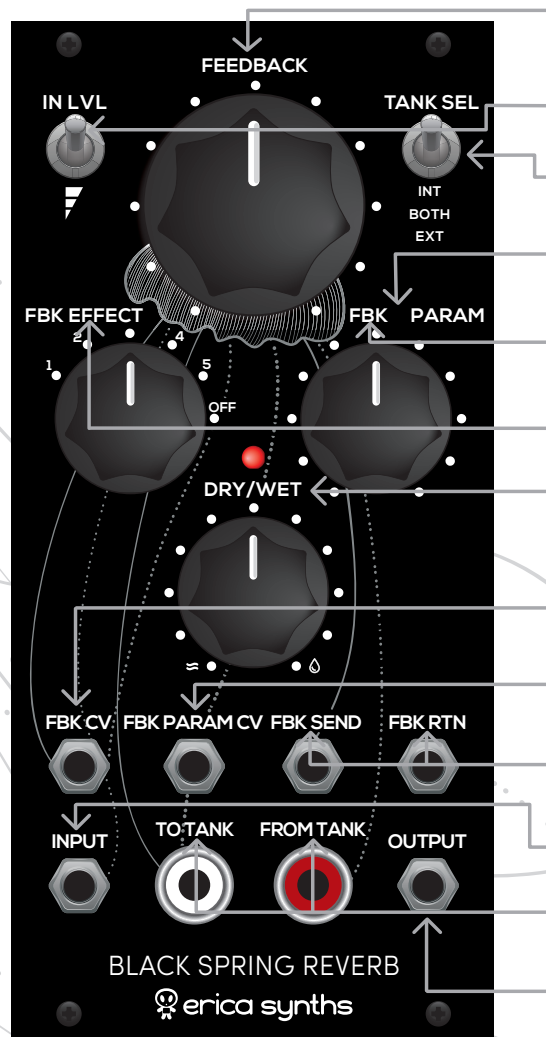
**Erica Synths Black Spring Reverb** is a different look on spring reverberation units. Firstly, it has a built in compact spring reverberation tank and vactrol-based audio compressor, secondly, it can operate an external tank AND combination of both internal and external ones for effects unheard before. Thirdly, in order to animate reverb effect, the module has built-in feedback effects – pitch shifters, delay, various filters, etc; feedback amount and effect parameters can be controlled manually and via CV, making the module an experimental instrument on its own.

### FEATURES:

- Compact spring reverberation tank to install in a skiff case
- Manually and CV controlled feedback amount
- Vactrol-based compressor
- 7 distinct feedback effects
- Selection between internal, external reverberation tanks or combination of both
- Feedback Send and Return jack sockets

### SPECS:

Audio input level	-5V - +5V
CV level (full span)	-5V - +5V
Power consumption	143mA, -71mA
Module width	12HP
Module depth	30mm
Internal reverb tank dimensions	190mmx67mmx24mm (30mm with spacers)



### FEEDBACK

Adjust the feedback amount manually! The FBK CV is added to the Feedback amount setting. At far CW settings the module goes into self-oscillation and, basically, you can use it as an instrument on it's own even with no audio input.

### IN LVL

Select input level! Upper setting passes the audio at gain 1, middle setting – gain 0,5, bottom setting turns audio input off.

### TANK SEL

Select the reverb tank! Upper setting connects the internal tank, bottom setting – external one, middle setting – both tanks in parallel

A small hole on the front panel allows access to the trimpot to adjust the external spring tank send signal gain. Use a small screwdriver to set optimal, non distorted signal level

### FBK PARAM

Adjust feedback effect parameter manually! FBK PARAM CV is added to the potentiometer setting. For optimal results you may also need to adjust the lower (EXT. TANK SEND)trimpot on the opposite side of the module.

### FBK EFFECT

Select the feedback effect to animate the reverb sound! Refer to the table of effects below!

### DRY / WET

Adjust the Dry/Wet ratio manually! If you use the module as a sound source at extreme feedback settings, make sure the Dry/Wet control is all way clockwise!

### FBK CV

This is feedback amount CV input

### FBK PARAM CV

This is feedback effects parameter CV input

### FBK SEND / FBK RTN

These are feedback send and return connectors. It will break internal effects circuit, and you can use the external effects to filter/animate reverb sound

### INPUT

This is the audio input

### TO TANK /FROM TANK

These are the external spring reverb tank send and receive inputs. The unit is designed for experiments with different external tanks. Experiment!

### OUTPUT

This is the audio output

## SAFETY INSTRUCTIONS

Please follow the instructions for use of the Erica Synths module below, 'cause only this will guarantee proper operation of the module and ensure warranty from Erica Synths.



Water is lethal for most of the electric devices, unless they are made waterproof. This Erica Synths module is NOT intended for use in a humid or wet environment. No liquids or other conducting substances must get into the module. Should this happen, the module should be disconnected from mains power immediately, dried, examined and cleaned by a qualified technician.



Do not expose the module to temperatures above +50° C or below -20° C. If you have transported module in extreme low temperatures, leave it in room temperature for an hour before plugging it in.



Transport the instrument carefully, never let it drop or fall over. Warranty does not apply to modules with visual damages.



The module has to be shipped in the original packaging only. Any module shipped to us for return, exchange and/or warranty repair has to be in its original packaging. All other deliveries will be rejected and returned to you. Make sure you keep the original packaging and technical documentation.



This device complies to the EU guidelines and is manufactured RoHS conforming without use of lead, mercury, cadmium and chrome. Nevertheless, this device is special waste and disposal in household waste is not recommended.

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Copying, distribution or any commercial use in any way is prohibited and needs the written permission by Erica Synths. Specifications are subject to change without notice. In case of any questions, feel free to contact us through [www.ericasynths.lv](http://www.ericasynths.lv).

You will find Erica Synths terms of warranty at [www.ericasynths.lv](http://www.ericasynths.lv)  
Items for return, exchange and/or warranty repair have to be sent to:  
Erica Synths  
Andrejostas Str. 43  
Riga  
Latvia  
LV-1045

# BLACK SPRING REVERB

## Feedback effects and controls

	Effect	Parameter control
1	RINGMOD	frequency
2	CREEPER	pitch offset
3	HANSAW	rate
4	DELAY	delay time
5	PITCH SHIFTER	pitch shift -12 to + 12
6	HAUNTED SHIFTER	pitch shift
7	SPRINGHAUSEN	intensity
8	BYPASS	no effect

When using the unit with feedback effect, we highly to approach it as an instrument on its own. Tweak the feedback and FX knobs drastically and hear how the spring reacts!

The more intensively you “move” the spring tank the more interesting effects can be achieved. Apply different modulation sources to Feedback CV and Parameter CV, do not just stick to static settings and playing only with the DRY/WET knob.

For example, try the HANSAW patch without any audio input, and apply bursts of Feedback knob turning from fully CCW position to 12 o clock position while adjusting the feedback parameter knob at the same time. This technique will produce some interesting, unheard before sounds!

## Internal spring reverb tank installation

1

The internal spring reverb tank is designed to fit in most of skiff cases, it's dimensions are 190mmx67mmx24mm (max height is 30mm with spacers). Before ordering the Erica Synths Black Spring Reverb, please, check, if it will fit into your eurorack case.

2

The tank comes with 5mm spacers and two kinds of screws – for wooden cases and for aluminum/plastic cases. For wooden cases just place spacers under the relevant holes of the tank (it's good idea to use a superglue to glue them to the tank permanently) and use wood screws to fix the tank to the case. For aluminium cases you need to drill 4 3.2mm holes and use M3 screws and relevant nuts to fix the tank. If you are skeptical about drilling holes in your case, just use the superglue to glue the tank to the case. Once tank is fixed, connect the wires to the module as shown on the picture.

3

Erica Synths Travel Cases come with dedicated risers to fix the tank. **NB! Make sure, the PSU cables and tank connectors do not touch springs on the reverb tank.**

