

# BASS SYNTHESIZER BSY600

Ultimate Bass Synthesizer Effects Pedal

Thank you for showing your confidence in us by purchasing the BEHRINGER BASS SYNTHESIZER BSY600. This high-quality effects pedal reproduces the fat and powerful sound of classic analog synthesizers— at the touch of a footswitch.

## 1. Controls

- 1 The **DIRECT** control adjusts the level of the direct, unaffected signal.
- 2 The **EFFECT** control adjusts the level of the synthesizer effect signal.
- 3 The **RES(onance)** control adjusts the strength of the low-pass filter frequency peak (see below).
- 4 The **FREQ(ueency)** control adjusts the low-pass/allpass filter frequency which cuts the high-frequencies and therefore determines the upper and lower limit of the frequency range the filter moves along.
- 5 The **DECAY/RATE** control has 2 different functions. Depending on the **MODE** switch position (see below) it adjusts either the LFO speed that modulates the amplitude of the filter frequency (**RATE**: mode 3 and 6 only) or sets the time over which the filter frequency moves (**DECAY**). When the decay time is set to **MAX**, the cut-off filter frequency is fixed.
- 6 Use the **MODE** switch to dial up one of 11 synthesizer modes with 4 different waveforms.
  1. **SAW** (sawtooth wave that produces sharp-edged sound)
  2. SAW (sawtooth wave one octave lower than mode 1)
  3. SAW (sawtooth wave with automatic filter frequency shifting)
  4. **SQUARE** (square wave that produces milder sound than the sawtooth modes)
  5. SQUARE (similar to mode 4 with additional square wave one octave below)
  6. SQUARE (square wave with automatic filter frequency shifting)
  7. **PULSE** (pulse wave that produces sharp-edged sound different from sawtooth modes)
  8. PULSE (pulse wave with all-pass filter for more depth and motion)
  9. PULSE (pulse wave with pulse width modulation for fat, spre ading sound)
  10. **WAVE** (input signal is directly transformed to a synthesizer sound. Filter rises when string is played and returns gradually)
  11. WAVE (similar to mode 10, but filter **drops** when string is played and returns gradually)
- 7 The **ON/BATT** LED illuminates when the effect is activated and flashes when the **PITCH HOLD** function is active (see below). It also serves as a battery level indicator.
- 8 Use the footswitch to activate/deactivate the effect. Keeping the footswitch depressed will activate the **PITCH HOLD** function (modes 1 - 9 only) that causes the unit to output the effect signal continuously, even if the bass is not played at this moment (**ON/BATT** LED flashes). You can also play the bass while keeping the footswitch pressed and mix the continuously output effect signal with the direct bass signal. Release the footswitch to deactivate this function.
- 9 Use this ¼" TS **IN** connector to plug in the instrument cable.
- 10 The two ¼" TS **OUT** and **DIR OUT** connectors send the signal to your amp. Use both connectors if you want to separate the unprocessed input signal (> **DIR OUT**) and the synthesized signal (> **OUT**). To mix both signals together use **OUT** only.



- ⑪ Use the ¼" TRS **EXP**(ression) connector to connect an expression pedal. This way you can externally control the movement of the filter frequency (DECAY) or—for mode 3 and 6—the speed of the effect (RATE). When using an expression pedal the DECAY/RATE control determines the max. value (expression pedal fully pressed).

Use the **DC IN** connection at the front of the unit to plug in a 9 V power supply (not included).

The **BATTERY COMPARTMENT** is located underneath the pedal cover. To install or replace the 9 V battery, press the hinges with a ballpen and remove the pedal cover. Be careful not to scratch the unit.

- ⚠ **The BSY600 has no on/off switch. As soon as you insert the plug into the in connector, the BSY600 begins running. When not using the BSY600, remove the plug from the in connector. This extends the life of the battery.**

The **SERIAL NUMBER** is located at the underside.

- ⚠ **In rare cases interferences of the normal function may appear by external influence (e.g. electrostatic discharge), as for example sound disturbances or malfunctions. If this occurs, please turn down the volume on subsequent amplifiers and disconnect the input connector briefly to restart the application.**

## 2. Safety Instructions

Do not use near water, or install near heat sources. Use only authorized attachments/accessories. Do not service product yourself. Contact our qualified servicing personnel for servicing or repairs, especially when power supply cord or plug is damaged.

## 3. Warranty

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

## 4. Specifications

In	
Connector	¼" TS
Impedance	500 kΩ

Out	
Connector	¼" TS
Impedance	1 kΩ

DIR OUT	
Connector	¼" TS
Impedance	1 kΩ

Power Supply	
	9 V <sup>+</sup> , 100 mA regulated

### BEHRINGER PSU-SB

USA/Canada	120 V~, 60 Hz
Europe/U.K./Australia	230 V~, 50 Hz

China	220 V~, 50 Hz
Korea	220 V~, 60 Hz
Japan	100 V~, 50/60 Hz
Power connector	2 mm DC jack, negative center
Battery	9 V type 6LR61
Power consumption	30 mA

### Physical/Weight

Dimensions (H x W x D)	approx. 2 ⅞ x 2 ¾ x 4 ⅞" approx. 54 x 70 x 123 mm
Weight	approx. 0.73 lbs / 0.33 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may therefore differ from those listed or shown.

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# FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



**BEHRINGER**

**BASS SYNTHESIZER BSY600**

Responsible Party Name: **MUSIC Group Services US Inc.**

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## **BASS SYNTHESIZER BSY600**

complies with the FCC rules as mentioned in the following paragraph:

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.

This device 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 Group can void the user's authority to use the equipment.

