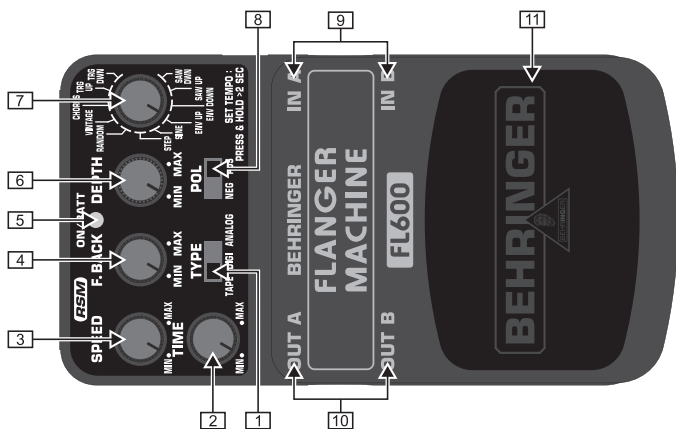


# FLANGER MACHINE FL600



Thank you for showing your confidence in us by purchasing the BEHRINGER FLANGER MACHINE FL600. This high-quality effects pedal delivers 11 extraordinary flanger modes with extensive parameter control that allow for maximum creativity so you always have the best sound regardless of the situation.

## 1. CONTROLS



Top view

- 1 The **TYPE** switch lets you choose between a high-fidelity, DIGI(tal) flanger with a flat frequency response, a vintage-type, ANALOG bucket-brigade delay with filtered frequency response and a classic studio flanger from the '70s (TAPE).
- 2 With the **TIME** control, you can adjust the flanger delay time. Longer delay times produce a sharper, more detuned sound, very close to a chorus effect.
- 3 The **SPEED** control determines the speed of the flanger effect. In CHORUS, VINTAGE, SINE, SAW UP and SAW DOWN modes, turning this control to the MIN(imum) brings the LFO to a halt.
- 4 The **F.BACK** control determines the amount of output signal fed back into the flanger input in order to confer more or less intensity to the effect.
- 5 The blue **ON/BATT** LED illuminates when the effect is activated. It also serves as a battery level indicator.
- 6 Turn up the **DEPTH** control to achieve a fuller and deeper effect sound.
- 7 This control lets you choose between different flanger effect modes:  
**TRG DWN**: The modulation signal triggers a linearly falling wave envelope with a falling time determined by the SPEED control.  
**TRG UP**: The same as TRG DWN but with a linearly rising wave envelope.  
**CHORUS**: The signal is modulated by a wide-range, triangular wave with a large offset producing a chorus-like effect.  
**VINTAGE**: A simulation of the classic MXR flanger.  
**RANDOM**: A random value generator produces a modulation signal whose level varies with each cycle of the LFO, which has a smoothing filter applied to the output.  
**STEP**: The same as RANDOM but without the smoothing filter at the LFO's output.  
**SINE**: The signal is modulated by a sine wave.  
**ENV UP**: The flanger's delay time is modulated according to the amplitude variations in the input signal as detected by an envelope follower.  
**ENV DOWN**: The inverted version of ENV UP.  
**SAW UP**: A positive sawtooth wave modulates the signal.  
**SAW DOWN**: A negative sawtooth wave modulates the signal.
- 8 **POL** lets you choose between NEG(ative) and POS(itive) feedback flanger modes.
- 9 Use the two 1/4" TS connectors **IN A** and **IN B** to plug in a stereo input signal. For mono use connect to IN A.
- 10 The two 1/4" TS connectors **OUT A** and **OUT B** send the signal to your amp. Use both outputs to achieve a full stereo effect. For mono use, connect to OUT A.  
In CHORUS, VINTAGE, SINE, SAW UP and SAW DOWN stereo modes, both channel signals are processed with inverted phase LFOs. In SAW UP and SAW DOWN mono modes, both delay lines are mixed to create a continuous rise/fall signal.
- 11 Press the footswitch to activate/deactivate the effect. Depress the pedal (>2 s) to set the flanger's speed by tapping the pedal to the desired tempo. Depress the pedal once again (>2 s) to quit the set tempo function.

Use the **DC IN** connection 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 (not included), press the hinges with a ballpoint pen and remove the pedal cover. Be careful not to scratch the unit.

# FLANGER MACHINE FL600



- The FL600 has no on/off switch. As soon as you insert the plug into the IN connector, the FL600 is on. When not using the FL600, remove the plug from the IN connector. This extends the life of the battery.

The SERIAL NUMBER is located on 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. WARRANTY

For our current warranty terms, please refer to our website at <http://www.behringer.com>.

## 3. SPECIFICATIONS

| IN A                   |                |   | IN B                      |                |
|------------------------|----------------|---|---------------------------|----------------|
|                        | Connector      | 1/4" TS   | Connector                 | 1/4" TS        |
|                        | Impedance      | 500 k $\Omega$  | Impedance                 | 500 k $\Omega$ |
|                        | Impedance mono | 250 k $\Omega$  |                           |                |
| OUT A                  |                |   | OUT B                     |                |
|                        | Connector      | 1/4" TS   | Connector                 | 1/4" TS        |
|                        | Impedance      | 1 k $\Omega$  | Impedance                 | 1 k $\Omega$   |
| Power supply           |                | 9 V $\equiv$ , 100 mA, regulated<br>BEHRINGER PSU-SB<br>U.S.A./Canada | 120 V $\sim$ , 60 Hz      |                |
|                        |                | China   | 220 V $\sim$ , 50 Hz      |                |
|                        |                | Korea   | 220 V $\sim$ , 60 Hz      |                |
|                        |                | Europe/U.K./Australia   | 230 V $\sim$ , 50 Hz      |                |
|                        |                | Japan   | 100 V $\sim$ , 50 – 60 Hz |                |
| Power connector        |                | 2 mm DC jack, negative center   |                           |                |
| Battery                |                | 9 V type 6LR61  |                           |                |
| Power consumption      |                | 60 mA   |                           |                |
| Dimensions (H x W x D) |                | approx. 54 mm (2 1/8") x 70 mm (2 3/4") x 123 mm (4 4/5")             |                           |                |
| Weight                 |                | approx. 0.33 kg (0.73 lbs)  |                           |                |

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## 4. 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**. No utilizar cerca de agua o instalar cerca de fuentes de calor. Utiliza sólo accesorios y aditamentos autorizados. No intentes reparar el producto tú mismo. Contacta a nuestro personal técnico cualificado para servicio y reparaciones, **especialmente cuando la fuente o el cable de alimentación estén dañados**.

Не эксплуатируйте прибор вблизи от источников воды и тепла. Применяйте только авторизованные дополнительные устройства. Никогда не ремонтируйте прибор самостоятельно. Ремонт может производить только квалифицированный специализированный персонал, **особенно при повреждениях сетевого провода или сетевой вилки**.

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# FEDERAL COMMUNICATIONS COMMISSION

## COMPLIANCE INFORMATION



Responsible party name: **MUSIC Group Services USA, Inc.**

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USA**

Phone/Fax No.: **Phone: +1 425 672 0816  
Fax: +1 425 673 7647**

### **FLANGER MACHINE FL600**

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.