

GNI

==== MUSIC



**PHASER & FLANGER'S
USER'S MANUAL**

INTRODUCTION

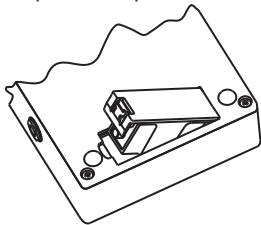
Thank you, and congratulations on your choice for GNI Music's products. Lots of work from engineers and professional musicians were spent in order to create really high-end pedals. These sections provide important information concerning the proper operation of our pedals. Please read, in order to feel assured you're ready to explore all available resources.

For more information and hints, check www.gnimusic.com.

CONNECTIONS

Power:

All pedals covered in this book can be used with standard 9V batteries, or DC power adaptors. These accessories are not included.



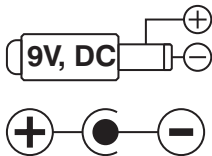
Installing battery:

Install 9V standard battery below the pedal, as shown in the figure. Be careful not to force the chord. Note that low batteries can compromise the sound quality, even when the effect is turned off (bypass mode). Remove the battery when your pedal is not in use.

Using DC adaptor:

The adaptor jack is in the back part of the unit. Please ensure you have an adaptor complying with the following specifications:

- 9V, DC, regulated adaptor.
- Polarity according to the figure.
- 300 mA (recommended).



WARNING: *Unregulated or 'switched mode' supplies may cause noise. Wrong tension values or reversed polarity may cause permanent damage to the pedal, not covered by warranty.*

Input and output

Input jack accepts signals from the guitar or another effects unit. Output jack is used to connect the pedal to the amplifier or another device. In some cases these jacks serve as power switches, meaning your unit may not turn on unless they are connected. This is an extra feature to save battery in case pedal is not being used.



ADVICE: *Cables are passive components with non-negligible capacitance. They can possibly interfere with sound's signal. In order to achieve better results, make your connections with good quality cables.*

TRUE BUFFER BYPASS (TBB)

When the effect is turned off, input signal passes to output through an active (“opamp”) buffer, and a mechanical switch. Buffer lowers signal's impedance, preserving its level and high tone contents. Mechanical switches are used to eliminate the need for some electronic components that usually degrade sound's quality in “pure-electronic” bypass pedals. Please note that this bypass system requires power to work. Signal will not pass if you are not using an adaptor or battery.

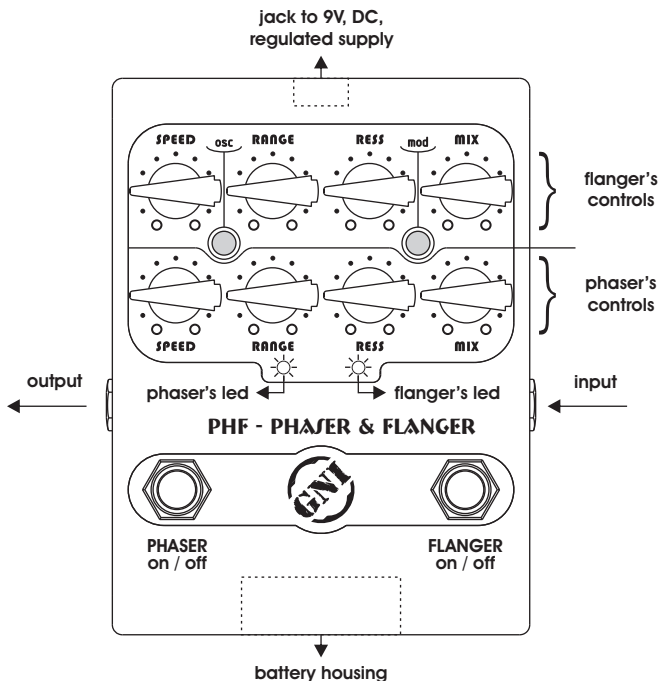
2 IN 1

GNI's Phaser & Flanger is a true two-in-one product, allowing you to use both modulations at the same time. Incredible results can be achieved this way. Note that GNI's design allows you to comfortably press both footswitches at the same time.

Phaser & Flanger

PHF brings 2 classic modulation effects in a single product. Each effect has a complete and independent set of controls for maximum flexibility. When combined (turned on simultaneously), they can generate impressive results.

Each control will be explained ahead. Also, some suggested settings will be shown.



PHF'S CONTROLS

Phaser and Flanger are effects created by superposing the instrument's signal with a phase-shifted copy of itself. The way to create the phase-shifted wave is what makes both effects different. Due to the similarity, most controls act the same way in both effects:

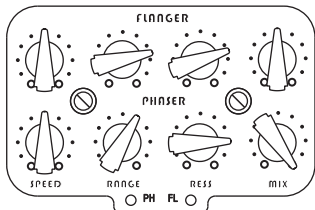
- **Speed:** controls the frequency of the “low frequency oscillator” (the “effect wave”).
- **Range:** controls the amplitude of that same wave.
- **Res:** Part of the phase-shifted signal is fed back into the effect, creating “resonance”. This knob controls the intensity of resonance you want in the sound.
- **Mix:** Intensity of the phase-shifted signal to be mixed with the clean sound. Higher setting make the effect stronger.

“Osc.” and “Mod.” buttons are 2 special controls to the Flanger (they don't affect phaser!).

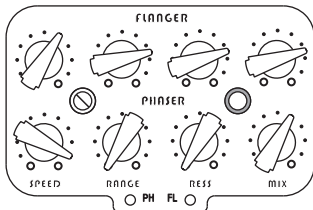
-
- **Osc.:** Determines how the low frequency oscillator works. When pressed, *speed* knob no longer works, and *range* knob changes its function, letting you choose a fixed point for the effect to work without oscillation.
- **Mod.:** When pressed, changes the way the phase-shifted wave is fed back into the effect. GNI called this alternate mode “talking flanger”, a peculiar mode which somewhat resembles a “talking box”.

SAMPLE SETTINGS

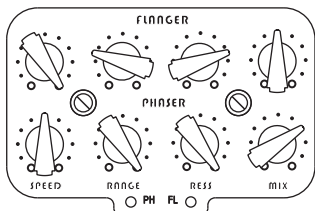
Note that some of these suggestions generate sounds similar to those of other effects, like *tremolos*, *vibes* and *vibratos*. They are not meant to be perfect simulations of such effects, but simply worth trying possibilities.



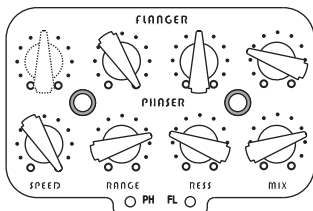
Traditional settings.



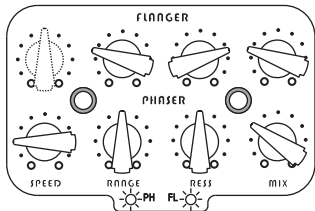
Flanger in "talking" mode; Phaser resembles 'Vibe'.



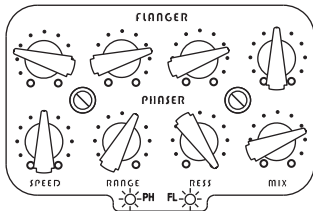
Fast Flanger resembles 'Tremolo'; Phaser is slow, with lots of high tones.



Flanger with locked oscillator and talking mode. Sounds low; Fast Phaser.



Flanger resembles 'reverb'; Phaser can be used at the same time.



Another interesting setting to use both effects together.

TROUBLESHOOTING

All pedals are tested before leaving GNI's facility. If you are finding difficulties, please pay attention to the following details. Most small problems are easy to solve with a simple checklist:

- Insert both input and output jacks, or the pedal won't turn on.
- Check if you used the correct sides for input and for output.
- If using DC adaptor, be sure it respects our specs. Reversed polarity, wrong tension, etc. may damage the circuitry and compromise warranty.
- If using batteries, be sure they are not discharged
- Check volume levels, wrong connections and broken cables.
- Keep your unit away from other electrical devices. TVs and other home appliances can cause interference and noise.
- Don't play very close to the amplifier, or directly facing it, in order to avoid feedback noise.

If you've carefully checked your setup and problems persist, please contact our technical representative at your country for further support and warranty. If you can't find our representative's information, please go to our website (www.gnipedals.com) and contact us directly.

SPECIFICATIONS

- Power supply: 9V battery, or adaptor according to our specs.
- Bypass mode: True Buffer Bypass
- Input impedance: 500 k Ω
- Output impedance: 5 k Ω
- Size: 62 x 141 x 110 (mm)
2.44 x 5.55 x 4.33 (in)
- Weight: 810g (1.8lb)

Specifications may change without notice.

GNI
MUSIC