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FLAMMA FV04

FLAMMA FV04 Vocal Harmony Pedal User Manual

MODEL: FV04

Brand: FLAMMA

1. Introduction

The FLAMMA FV04 Vocal Harmony Pedal is an all-in-one effects processor designed for both singers and guitarists. It provides a range of vocal harmony effects, dedicated reverb for both vocal and guitar inputs, and flexible output options, making it suitable for live performances, practice, and studio recording. This manual will guide you through the setup, operation, and features of your FV04 pedal.

2. Key Features

- 11 Harmony Modes:** Offers a selection of 11 distinct harmony modes, with the ability to switch between major and minor scales for comprehensive tuning flexibility.
- Dual Input Support:** Accepts both guitar and microphone inputs, providing dedicated reverb effects for each.
- Flexible Output Options:** Functions as an all-in-one effects solution, allowing users to choose between a mixed signal output or individual outputs for separate vocal and guitar channels.
- Phantom Power & Mic Preamplifier:** Includes 48V phantom power support for condenser microphones and can also be utilized as a microphone amplifier.
- Durable Construction:** Features a robust, full-metal blue casing designed for reliability and longevity, powered by the included 9V 500mA power supply.

3. Setup Guide

Follow these steps to connect your FV04 pedal:

- Power Connection:** Connect the included 9V 500mA power adapter to the 'DC IN' jack on the rear panel of the pedal.
- Microphone Input:** Connect your microphone to the 'MIC' XLR input. If using a condenser microphone, ensure the '48V' phantom power switch is engaged.

3. **Guitar Input:** Connect your guitar to the 'LINE IN' 1/4-inch jack.
4. **Output Connection:** Connect the 'XLR OUT' to your mixer or audio interface for vocal output. Use the 'GUITAR OUT' 1/4-inch jack for guitar output. Refer to Section 6 for output mode configurations.
5. **Ground Lift:** If experiencing hum or noise, toggle the 'LIFT/GND' switch to the 'LIFT' position to break ground loops.

Support 2 Output Modes

Individual Mode:



Mix Mode:



Figure 3.1: Rear panel connections of the FV04 pedal.

4. Operating Instructions

The FV04 pedal features intuitive controls for easy operation:

- **KEY Knob:** Rotate this knob to select the root key for your harmony effects. Options include C, D, E, F, G, A, B.
- **SHARP Button:** Press this button to modulate the selected key to a higher semitone (e.g., C to C#, D to D#). Double-press quickly to switch between major and minor scales for the current root note. The SHARP button LED will blink when a minor scale is selected.
- **MODE Knob:** Turn this knob to select one of the 11 available harmony modes. Refer to Section 5 for a detailed list of modes.
- **LEVEL Knob:** Adjusts the overall level of the harmony effect. Turn clockwise to increase the effect level.
- **Footswitch:** Press the footswitch to engage or bypass the harmony effect. The LED around the footswitch indicates the effect status.



Figure 4.1: Front panel controls of the FV04 pedal.

FV04 PROVIDES 12 KEYS TO CHOOSE FROM

Rotate KEY knob to select **C D E F G A B** scale

Press SHARP button to modulate to
higher semitone **D_b E_b F_# A_b B_b**



Figure 4.2: Selecting the root key with the KEY knob.

FV04 PROVIDES SCALES SELECTION FOR MAJOR & MINOR

Press SHARP twice quickly to select the minor scale of the current root note, the SHARP button will keep blinking



Figure 4.3: Major and minor scale selection.

5. Harmony Modes

The FV04 offers 11 distinct harmony modes, selectable via the MODE knob:

Num	Harmony Mode	Description
1	OCT-	One octave lower harmony.
2	5th L	Lower fifth harmony.

Num	Harmony Mode	Description
3	3rd L	Lower third harmony.
4	3rd H	Higher third harmony.
5	5th H	Higher fifth harmony.
6	OCT+	One octave higher harmony.
7	OCT- & OCT+	Harmonies one octave lower and one octave higher.
8	5th L & 3rd H	Harmonies with a lower fifth and a higher third.
9	5th L & 5th H	Harmonies with a lower fifth and a higher fifth.
10	3rd L & 3rd H	Harmonies with a lower third and a higher third.
11	3rd L & 5th H	Harmonies with a lower third and a higher fifth.



11 DIFFERENT HARMONY MODES

Num	Harmony Mode	Num	Harmony Mode
1	OCT-	7	OCT-&OCT+
2	5th L	8	5th L&3rd H
3	3rd L	9	5th L&5th H
4	3rd H	10	3rd L &3rdH
5	5th H	11	3rd H & 5th H
6	OCT+		

Figure 5.1: Detailed list of Harmony Modes.

6. Output Modes

The FV04 supports two main output configurations:

- **Individual Mode:** This mode provides separate outputs for your guitar and vocal signals. The guitar signal exits via the 1/4-inch 'GUITAR OUT' jack, and the vocal signal (with effects) exits via the 'XLR OUT'.
- **Mix Mode:** In this mode, both the guitar and vocal signals are combined and sent through the 'XLR OUT'. This is useful for simplified setups where a single output to a mixer or amplifier is preferred.

To switch between output modes, refer to the product's quick start guide or the official FLAMMA website for specific button combinations, as this functionality is often accessed through a hidden setting or a combination of button presses during power-up.



Figure 6.1: Individual and Mix Output Modes.

7. Vocal Tone Modes (Hidden)

The FV04 includes three hidden vocal tone modes that can subtly shape your vocal sound:

- **WARM Mode:** Indicated by a Red LED. Adds warmth and body to your vocal tone.
- **BRIGHT Mode:** Indicated by a Blue LED. Enhances clarity and presence in your vocal tone.
- **NORMAL Mode:** Indicated by the LED being OFF. Provides a natural, unprocessed vocal tone.

To cycle through these vocal tone modes, press the SHARP button three times quickly. The LED color will change to indicate the active mode.

3 Vocal TONE Modes in Hidden Mode



Figure 7.1: Vocal Tone Modes via SHARP button LED.

8. Reverb Effects

The FV04 features dedicated reverb effects for both vocal and guitar inputs, allowing you to add depth and space to your sound. The reverb parameters are typically controlled internally or through specific modes, providing a balanced and musical enhancement to your performance.

REVERB EFFECTS FOR BOTH VOCAL & GUITAR



Figure 8.1: Reverb effects for vocal and guitar.

9. Specifications

Specification	Value
Model Number	FV04
Product Weight	363 g (0.8 lbs)
Product Dimensions	8.64 x 6.1 x 12.45 cm (3.4 x 2.4 x 4.9 inches)

Specification	Value
Hardware Interface	1/4 inch Audio, XLR
Signal Format	Digital
Power Source	Electric with cable
Voltage	9 Volts
Current Draw	500mA

10. Troubleshooting

If you encounter issues with your FV04 pedal, consider the following common solutions:

- **No Sound:**

- Ensure the power adapter is correctly connected and the pedal is receiving power.
- Check all audio cables (microphone, guitar, outputs) for secure connections.
- Verify that the footswitch LED is illuminated, indicating the effect is engaged.
- Adjust the 'LEVEL' knob to ensure the harmony effect is not set to zero.
- If using a condenser microphone, ensure the '48V' phantom power switch is engaged.

- **Distortion/Unwanted Noise:**

- Reduce the input gain on your microphone or guitar, or the 'LEVEL' knob on the pedal.
- Check the 'LIFT/GND' switch on the rear panel; try toggling it to 'LIFT' to eliminate ground hum.
- Ensure you are using the correct 9V 500mA power supply.

- **Harmony Not Correct:**

- Verify that the 'KEY' knob is set to the correct musical key for your performance.
- Check if the 'SHARP' button LED is blinking, indicating a minor scale is active. Adjust as needed.
- Ensure the 'MODE' knob is set to the desired harmony interval.

11. Maintenance

To ensure the longevity and optimal performance of your FLAMMA FV04 pedal:

- **Cleaning:** Use a soft, dry cloth to clean the pedal's surface. Avoid using abrasive cleaners, solvents, or waxes.
- **Storage:** Store the pedal in a dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Avoid dropping the pedal or subjecting it to strong impacts.
- **Power Supply:** Always use the specified 9V 500mA power adapter to prevent damage.

12. Warranty and Support

For detailed warranty information, product registration, or technical support, please visit the official FLAMMA website or contact your authorized FLAMMA dealer. Keep your purchase receipt as proof of purchase for

warranty claims.