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Behringer DD600

Behringer DIGITAL DELAY DD600 User Manual

Digital Stereo Delay/Echo Effects Pedal

INTRODUCTION

Welcome to the user manual for the Behringer DIGITAL DELAY DD600 Digital Stereo Delay/Echo Effects Pedal. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

The DD600 is designed to provide a wide range of digital delay and echo effects for musical instruments, particularly electric guitars. It features 11 different delay modes and high-resolution 24-bit processing.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel.

KEY FEATURES

- Ultimate digital Delay/Echo effects pedal with 11 different modes.
- Real Sound Modeling (RSM) technology for emulating acoustic environments.
- 24-bit high-resolution stereo delay/echo/panning with delay time up to 2 seconds.
- Dedicated Mode, Delay Time, Feedback, and Level controls for sound shaping.
- Blue status LED for effect on/off and battery check.

CONTROLS AND CONNECTORS

Familiarize yourself with the controls and connectors on your DD600 pedal.



This image shows the Behringer DD600 Digital Delay pedal. Key controls visible include: **LEVEL** knob (Min/Max), **F.BACK** (Feedback) knob (Min/Max), **D.TIME** (Delay Time) knob (Min/Max), and **MODE/TEMPO** knob. The pedal also features an **ON/BATT** LED indicator, **IN** (input) and **OUT A** (output) jacks, and a **PAN OUT** jack for stereo output. The large foot switch at the bottom is labeled **BEHRINGER**.

LEVEL Knob: Adjusts the output level of the delayed signal.

F.BACK (Feedback) Knob: Controls the amount of delayed signal fed back into the input, affecting the number of repeats.

D.TIME (Delay Time) Knob: Sets the duration of the delay effect, from minimum to maximum (up to 2 seconds).

MODE/TEMPO Knob: Selects between 11 different delay modes and can be used for tap tempo functionality.

ON/BATT LED: Indicates when the effect is active and serves as a battery check indicator.

IN Jack: Input for your instrument cable.

OUT A Jack: Main output for the processed signal.

PAN OUT Jack: Secondary output for stereo delay effects.

Footswitch: Activates or deactivates the effect.

SETUP

Power Supply

The DD600 can be powered by a 9V battery or an optional 9V DC power adapter (not included).

Battery Installation:

1. Press the two hinges on the side of the pedal to open the battery compartment.
2. Connect a 9V battery to the battery clip.
3. Place the battery inside the compartment and close the lid securely.

External Power Adapter:

Connect a 9V DC, 100mA (minimum) power adapter with a center-negative plug to the DC input jack. Using an external power supply will automatically disconnect the battery.

Connections

Mono Setup:

1. Connect your instrument (e.g., guitar) to the **IN** jack of the DD600.
2. Connect the **OUT A** jack of the DD600 to your amplifier's input.

Stereo Setup:

1. Connect your instrument to the **IN** jack.
2. Connect **OUT A** to the input of your first amplifier.
3. Connect **PAN OUT** to the input of your second amplifier.

OPERATING INSTRUCTIONS

Basic Operation

Activating the Effect: Press the footswitch to toggle the effect on or off. The blue LED will illuminate when the effect is active.

Adjusting Delay Parameters: Use the **LEVEL**, **F.BACK**, and **D.TIME** knobs to fine-tune your desired delay sound.

Delay Modes

The **MODE/TEMPO** knob allows selection of 11 distinct delay modes:

- **Delay:** Standard digital delay.
- **Tape:** Emulates the warm, modulated sound of analog tape echo.

- **Reverse:** Plays the delayed signal backward.
- **Hold:** Loops a short phrase (up to 2 seconds).
- **Pan:** Creates a stereo panning delay effect.
- **Modulate:** Adds modulation to the delay repeats.
- **Echo:** Classic echo effect.
- **Slap:** Short, single repeat delay for a "slapback" effect.
- **Ping Pong:** Alternates delay repeats between left and right channels in stereo.
- **Analog:** Simulates the decay characteristics of analog delays.
- **Gate:** A gated delay effect.

Tap Tempo Function

To use the tap tempo feature, hold down the footswitch for approximately 2 seconds until the LED flashes. Then, tap the footswitch two or more times at your desired tempo. The delay time will synchronize with your taps.

Note: The tap tempo function is available in most delay modes.

MAINTENANCE

The Behringer DD600 requires minimal maintenance.

- **Cleaning:** Clean the pedal with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace the 9V battery when the blue LED dims or fails to illuminate, indicating low power.
- **Storage:** If storing the pedal for an extended period, remove the battery to prevent leakage. Store in a cool, dry place.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------|--|--|
| No sound or weak sound. | Incorrect connections, dead battery, faulty cable, or incorrect settings. | Check all cable connections. Replace the 9V battery or use a power adapter. Test with different cables. Ensure LEVEL knob is not at minimum. |
| Effect not engaging. | Footswitch not pressed, power issue. | Press the footswitch firmly. Check power supply (battery or adapter). |
| Unwanted noise or hum. | Ground loop, faulty power supply, or interference. | Use a regulated power supply. Try a different power outlet. Ensure all cables are in good condition. Isolate the pedal from other noisy equipment. |
| Delay time not changing. | D.TIME knob not adjusted, or in a mode that overrides manual time setting. | Rotate the D.TIME knob. Check the selected MODE. If using tap tempo, ensure it's disengaged or re-tap. |

SPECIFICATIONS

Model: Behringer DD600

Effect Type: Digital Delay/Echo

Number of Modes: 11

Processing: 24-bit high-resolution

Max Delay Time: Up to 2 seconds

Inputs: 1/4-inch TS (IN)

Outputs: 1/4-inch TS (OUT A, PAN OUT)

Power Supply: 9V DC (battery or optional power adapter)

Dimensions (H x W x D): Approximately 2.13 x 2.76 x 4.84 inches (54 x 70 x 123 mm)

Weight: Approximately 0.73 lbs (0.33 kg)

Color: Blue

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official Behringer website or contact their customer service. Keep your purchase receipt as proof of purchase.

Online Resources:

Behringer Official Website: www.behringer.com

Product Support Page: (Specific link not provided, refer to main website)