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## BOSS DD-20

# BOSS DD-20 Giga Delay Guitar Pedal Instruction Manual

Model: DD-20

## INTRODUCTION

The BOSS DD-20 Digital Delay is a high-performance guitar pedal designed to provide a wide range of delay effects with extensive user control. It features a maximum delay time of up to 23 seconds and offers 11 distinct delay modes, including classic and innovative options. This manual provides essential information for setting up, operating, and maintaining your DD-20 pedal.

## Key Features:

- Up to 23 seconds of delay time, the longest available in a compact pedal.
- 11 versatile delay modes, including Analog, Tape, Standard, Dual, Pan, Smooth, Modulate, Warp, Twist, Reverse, and Sound-on-Sound (SOS).
- Memory function to store and recall up to four user-defined settings.
- Tap Tempo functionality for real-time synchronization of delay time.
- Intuitive push-button knob for fine or coarse adjustments of delay parameters.

## CONTROLS OVERVIEW

The DD-20 features a comprehensive set of controls for precise sound shaping. Familiarize yourself with each element to unlock the pedal's full potential.



Figure 1: Top view of the BOSS DD-20 Giga Delay Guitar Pedal, showing all knobs, switches, and display.

## Front Panel Controls:

- **E.LEVEL Knob:** Adjusts the overall effect level (volume) of the delay sound.
- **F.BACK Knob:** Controls the feedback (number of repeats) of the delay.
- **TONE Knob:** Adjusts the tone of the delay repeats.
- **MODE Selector:** Rotary switch to select one of the 11 delay modes.
- **DELAY TIME Knob:** Sets the delay time. This is a push-button knob allowing for fine or coarse adjustments.
- **DISPLAY:** Shows the current delay time in seconds and other relevant information.
- **MANUAL 1-4/WRITE/SELECT Buttons:** Used for memory selection, writing presets, and selecting tap tempo subdivisions.
- **ON/OFF Footswitch:** Activates or bypasses the delay effect.
- **MEMORY/TAP Footswitch:** Recalls stored memories or sets the delay time via tap tempo.

## SETUP

1. **Power Connection:** Connect a 9V DC power adapter (BOSS PSA series recommended) to the DC IN jack. Alternatively, the pedal can be powered by six AA batteries.
2. **Input Connection:** Connect your guitar or other instrument to the INPUT A (MONO) jack. For stereo input, connect to both INPUT A and INPUT B.

3. **Output Connection:** Connect the OUTPUT A (MONO) jack to your amplifier or next effect pedal. For stereo output, connect both OUTPUT A and OUTPUT B to two separate amplifiers or channels.
4. **External Control (Optional):** An external footswitch (e.g., BOSS FS-5U) can be connected to the CTL PEDAL TYPE/TEMPO TYPE jack for additional control over tap tempo or other functions.

## OPERATING INSTRUCTIONS

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### Selecting Delay Modes:

Turn the **MODE** knob to select your desired delay type. The DD-20 offers a diverse range of modes:

- **STANDARD:** Clear digital delay.
- **ANALOG:** Warm, vintage analog delay sound.
- **TAPE:** Emulates classic tape echo units.
- **DUAL:** Two independent delays for complex rhythmic patterns.
- **PAN:** Delay repeats pan between left and right outputs (stereo output required).
- **SMOOTH:** A new mode offering a soft, ambient delay.
- **MODULATE:** Delay with modulation for chorus-like effects.
- **WARP:** Creates a unique, swelling delay effect.
- **TWIST:** A new mode for radical, pitch-shifting delay effects.
- **REVERSE:** Plays delay repeats in reverse.
- **SOS (Sound-on-Sound):** Allows for sound-on-sound recording (looping).

### Adjusting Delay Time:

- **Knob Control:** Turn the **DELAY TIME** knob to set the delay time. Pressing the knob allows for switching between fine and coarse adjustment modes.
- **Tap Tempo:** Tap the **MEMORY/TAP** footswitch two or more times in rhythm to set the delay time. The display will show the set time.

### Saving and Recalling Memories:

The DD-20 can store up to four custom settings (Memories 1-4) plus a Manual setting.

- **To Save:** Adjust the pedal to your desired settings. Press and hold the **WRITE** button until the display flashes, then select the memory location (1-4) using the corresponding button. Press **WRITE** again to confirm.
- **To Recall:** Press the **MEMORY/TAP** footswitch to cycle through the stored memories (1-4) and the Manual setting.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the pedal. Avoid abrasive cleaners or solvents.
- **Battery Replacement:** When the **CHECK** indicator dims or the sound becomes distorted, replace the batteries. Ensure the pedal is turned off before replacing batteries.
- **Storage:** Store the pedal in a dry, cool place away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound or low volume	Incorrect cable connections, low battery, E.LEVEL knob set too low.	Check all cable connections. Replace batteries. Adjust E.LEVEL knob.
Delay effect is not heard	Effect is bypassed, E.LEVEL or F.BACK knobs set too low.	Press ON/OFF footswitch. Adjust E.LEVEL and F.BACK knobs.
CHECK indicator does not light up	No power, incorrect power adapter.	Ensure power adapter is connected correctly or batteries are installed. Use recommended BOSS PSA adapter.

## SPECIFICATIONS

- **Model:** DD-20 Digital Delay
- **Brand:** BOSS
- **Nominal Input Level:** -20 dBu
- **Input Impedance:** 1 M ohm
- **Nominal Output Level:** -20 dBu
- **Output Impedance:** 1 k ohm
- **Recommended Load Impedance:** 10 k ohms or greater
- **Delay Time:** 1 ms to 23 seconds
- **Memory:** 4 User Memories + Manual
- **Power Supply:** DC 9V (AC adapter or 6x AA batteries)
- **Current Draw:** 200 mA
- **Dimensions:** 173 (W) x 158 (D) x 57 (H) mm (6-13/16 x 6-1/4 x 2-1/4 inches)
- **Weight:** 1.2 kg (2 lbs 11 oz) (including batteries)

## WARRANTY & SUPPORT

Specific warranty details and support contact information are typically provided in the product packaging or on the manufacturer's official website. Please refer to the documentation included with your BOSS DD-20 pedal or visit the [BOSS Store](#) for the most up-to-date information regarding warranty coverage, service centers, and technical support.