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Keeley K30ms

Keeley 30ms Double Tracker Pedal Instruction Manual

Model: K30ms

INTRODUCTION

This manual provides detailed instructions for the Keeley 30ms Double Tracker Pedal. This stereo effect pedal is designed to create a variety of studio-style double tracking effects, making instruments sound thicker and fuller. It can be used with guitar, bass, keyboards, and even vocals, offering versatile sound enhancement for musicians.



Figure 1: Keeley 30ms Double Tracker Pedal.

KEY FEATURES

- Stereo effect pedal offering various studio-style double tracking effects for thicker, fuller instrument sounds.
- Includes a reverb effect simulating the famous chamber in Studio Two.
- Designed for use with guitar, bass, keyboards, and vocals.
- Allows musicians to utilize double tracking techniques on the road with a wide range of tools for unique double tracking schemes.
- Can be used in mono with an integrated "Abbey Verb" reverb control or in stereo as the Double Tracker Pro.

CONTROLS AND FUNCTIONS

The Keeley 30ms Double Tracker pedal features several controls to shape your sound. Familiarize yourself with each

knob and switch for optimal performance.



Figure 2: Control layout of the 30ms Double Tracker Pedal.

TUNING (T+R / Rate/Depth): Controls the tuning of double-tracked voices up to +/- 30 cents. In Abbey Mode, this knob controls the modulation rate and depth.

TIME: Controls the delay time from 0-30ms. In Slapback Mode, this knob controls delay from 30-120ms.

REVERB (T-D): Controls the amount of vintage studio echo chamber style reverb, featuring roll-offs at 600Hz and 10kHz.

LEVEL: Controls the overall output level of the effect.

MODE SELECT: A toggle switch used to select between three distinct modes: Dimension (Up position), Abbey Mode (Middle position), and Slapback (Down position).

FOOTSWITCH: Engages or bypasses the effect. The LED indicates whether the effect is active.

SETUP

Power Connection

The Keeley 30ms Double Tracker requires a 9V DC power supply with a center-negative polarity. The current draw is approximately 65mA. Ensure your power supply meets these specifications to prevent damage and ensure proper operation. **Do not use an unregulated power supply or one with incorrect polarity.**

Audio Connections

The pedal features standard 1/4-inch audio input and output jacks.

- **Mono Operation:** Connect your instrument (e.g., guitar) to the input jack and your amplifier or the next pedal in your signal chain to the output jack using standard mono instrument cables.
- **Stereo Operation (Double Track Pro):** For stereo output, use a TRS (Tip-Ring-Sleeve) cable for the output. In this configuration, the Tip carries the effected signal, and the Ring carries the original signal. Refer to the "Internal

Switches" section for configuring stereo modes.

OPERATING MODES

The 30ms Double Tracker offers three distinct operating modes, each providing a unique sonic character. Select your desired mode using the Mode Select toggle switch.

Dimension Mode

This mode produces two voices, both slightly detuned from the original signal. Use the **TUNING** knob to control the pitch of these voices and the **TIME** knob to introduce a subtle delay, up to 30ms, creating a lush, wide sound.

Abbey Mode

Inspired by legendary British studio sessions of the 1960s, this mode provides a single delayed voice with a modulation effect, reminiscent of a classic tape machine. The **TUNING** knob controls the modulation rate and depth, allowing for subtle warble or more pronounced movement.

Slapback Mode

This mode produces a classic slapback delay ranging from 30ms to 120ms. It also includes two adjustable doubled voices, adding depth and character to the traditional slapback effect.

INTERNAL SWITCHES

The Keeley 30ms Double Tracker features internal DIP switches for advanced configuration, particularly for stereo operation and blending options. To access these switches, you will need to carefully open the pedal enclosure.

INTERNAL SWITCHES:

MONO CABLE OPERATION		
SW1	SW2	MODE
LEFT	LEFT	MONO+REVERB (FACTORY DEFAULT)
LEFT	RIGHT	MONO+DBL TRK PRO

TRS STEREO CABLE OPERATION				
SW1	SW2	TIP OUTPUT	RING OUTPUT	MODE
LEFT	LEFT	BLEND	DRY	FX W/ REVERB (STOCK)
LEFT	RIGHT	BLEND	DRY	DOUBLE TRACK PRO
RIGHT	LEFT	FX	DRY	FX W/ REVERB (STOCK)
RIGHT	RIGHT	FX	DRY	DOUBLE TRACK PRO

EXPLANATION OF MODES

DIMENSION: THIS MODE PRODUCES 2 VOICES, BOTH SLIGHTLY DETUNED. YOU CAN CONTROL THE PITCH OF THESE WITH TUNING, AND DELAY THEM BY UP TO 30ms.

ABBAY MODE: THIS MODE WAS DESIGNED TO APPROXIMATE THE DOUBLE TRACKING EFFECT EMPLOYED ON LEGENDARY BRITISH STUDIO SESSIONS OF THE 60'S. A SINGLE DELAYED VOICE WITH A MODULATION EFFECT REMINISCENT OF MANUALLY SLOWING A TAPE MACHINE.

SLAPBACK: THIS MODE PRODUCES AN ADJUSTABLE CLASSIC SLAPBACK DELAY FROM 30ms-120ms, AS WELL AS THE 2 ADJUSTABLE DOUBLED VOICES.

DOUBLE TRACKING PRO MODE

DOUBLE TRACKING PRO MODE IS ENABLED BY SWITCHING THE INTERNAL SWITCH #2 TO THE RIGHT POSITION. THIS CHANGES THE CONTROL LAYOUT OF THE PEDAL TO THE ONE PICTURED HERE. A REMINDER OF THE CONTROL LAYOUT IS REPRESENTED ON THE FACE OF THE PEDAL BY THESE MARKERS:

T-70 T-71

IN THIS MODE, MOVE INTERNAL SWITCH #1 TO RIGHT POSITION AND USE TRS CABLE FOR AN INCREDIBLE STEREO SOUND WITH DOUBLE TRACKED VOICES IN ONE CHANNEL AND THE ORIGINAL IN THE OTHER.



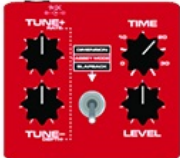
— EXAMPLE SETTINGS IN DOUBLE TRACK PRO MODE: —



DIMENSION MODE
TUNE+: SHARP 20 CENTS
TUNE-: FLAT 10 CENTS
TIME: DELAYED 20ms



ABBAY MODE
RATE: 2Hz (RANGE: 0-4Hz)
DEPTH: 1.75ms (RANGE: +/- 3.5ms)
TIME: 15ms



SLAPBACK MODE
TUNE+: SHARP 15 CENTS
TUNE-: FLAT 15 CENTS
TIME: 80ms SLAPBACK

Figure 3: Internal switch settings and example configurations.

Mono Cable Operation

SW1	SW2	MODE
LEFT	LEFT	MONO+REVERB (Factory Default)
LEFT	RIGHT	BLEND
RIGHT	LEFT	FX
RIGHT	RIGHT	DOUBLE TRACK PRO

TRS Stereo Cable Operation

SW1	SW2	BLEND	OUTPUT	TIP	RING	MODE
LEFT	LEFT		DRY	FX W/ REVERB	(STOCK)	
LEFT	RIGHT	FX	DRY			DOUBLE TRACK PRO
RIGHT	LEFT	FX	DRY			FX W/ REVERB (STOCK)
RIGHT	RIGHT	FX	DRY			DOUBLE TRACK PRO

To enable Double Tracking Pro mode, switch internal switch #2 to the RIGHT position. This allows the control layout on the face of the pedal to control the original signal. Use a TRS cable for an incredible stereo sound with double-tracked voices, one on the Tip and the original on the Ring.

EXAMPLE SETTINGS

Here are some suggested settings to help you get started with different modes and explore the pedal's capabilities.

Dimension Mode Example

- **TUNE**: Sharp 20 cents
- **TIME**: Flat 10 cents
- **LEVEL**: Adjust to taste

Abbey Mode Example

- **RATE**: 2Hz (Range: 0-4Hz)
- **DEPTH**: 1.75ms (Range: +/- 3.5ms)
- **TIME**: 15ms
- **LEVEL**: Adjust to taste

Slapback Mode Example

- **TUNE**: Sharp 15 cents
- **TIME**: Flat 15 cents
- **LEVEL**: Adjust to taste

SPECIFICATIONS

Feature	Detail
Brand	Keeley
Model	K30ms
Effect Type	Double Tracker, Short Time Delay, Static Chorus, Reverb
Power Requirement	9V DC, Center Negative, 65mA minimum
Audio Input	1/4 inch instrument input (Mono)
Audio Output	1/4 inch instrument output (Mono or Stereo TRS)
Signal Format	Analog
Dimensions	11.2 x 6.8 x 5.1 cm
Included Components	"Abbey Verb" reverb control
UPC	854295005383

MAINTENANCE

Cleaning

Wipe the pedal with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or excessive moisture, which can damage the finish, labels, and internal electronic components.

Storage

Store the pedal in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Disconnect the power supply when the pedal is not in use for extended periods to prolong its lifespan.

Battery Replacement

This pedal is designed for external power supply only and does not utilize batteries.

TROUBLESHOOTING

No Sound

- Ensure the power supply is correctly connected and providing 9V DC center-negative power.
- Check all audio cables for proper connection and functionality. Try swapping cables to rule out a faulty cable.
- Verify that the pedal is engaged (the footswitch LED should be illuminated).
- Adjust the **LEVEL** knob to ensure the output is not set to minimum.

Unexpected Sound/Effect

- Check the **MODE SELECT** switch to ensure the desired mode (Dimension, Abbey, Slapback) is selected.
- Review the **TUNING**, **TIME**, and **REVERB** knob settings. Small adjustments can significantly alter the sound.
- If using stereo output, ensure internal switches are set correctly for your desired configuration (refer to the "Internal Switches" section).

Noise/Hum

- Ensure you are using a high-quality, isolated power supply. Daisy-chaining power with other pedals can sometimes introduce noise.
- Check for ground loops in your signal chain. Try isolating the pedal's power or using a different outlet.
- Try different audio cables to rule out faulty or unshielded connections.

WARRANTY AND SUPPORT

Keeley Electronics products are known for their quality and reliability. For detailed warranty information, product registration, and technical support, please refer to the official Keeley Electronics website or contact their customer service directly.

Please retain your proof of purchase for any warranty claims. Unauthorized modifications or repairs may void your warranty.

For further assistance, visit: www.robertkeeley.com

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