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behringer TD-3
Analog Bass
Line
Synthesizer

behringer TD-3 Analog Bass Line Synthesizer User Guide

Contents

behringer

behringer TD-3 Analog Bass Line Synthesizer

Specifications

- Product: TD-3 Analog Bass Line Synthesizer
- Features: VCO, VCF, 16-Step Sequencer, Distortion Effects, 16-Voice Poly Chain
- Version: 5.0

Product Usage Instructions

Important Safety Instructions

- This product contains dangerous voltage inside the enclosure. Do not remove the top cover or rear section. Refer servicing to qualified personnel.
- Connect the apparatus to a MAINS socket outlet with a protective earthing connection. Ensure the disconnect device is readily operable.

Legal Disclaimer

- Music Tribe accepts no liability for any loss resulting from reliance on the information provided.
- For warranty terms and conditions, refer to Music Tribe's Limited Warranty online.

FAQ

- **Q: Can I clean the device with water?**
  - A: No, clean the device only with a dry cloth as using it near water can be dangerous.
- **Q: What should I do in case of a long period of non-use?**

  - A: Unplug the device during storms or if you are not going to use it for an extended period.

Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK!
DO NOT OPEN!

- ⚡ Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

- ⚡ This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.

- ⚠ This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

- **Caution**

  To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

- **Caution**

  To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.r

- **Caution**

  These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into

the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
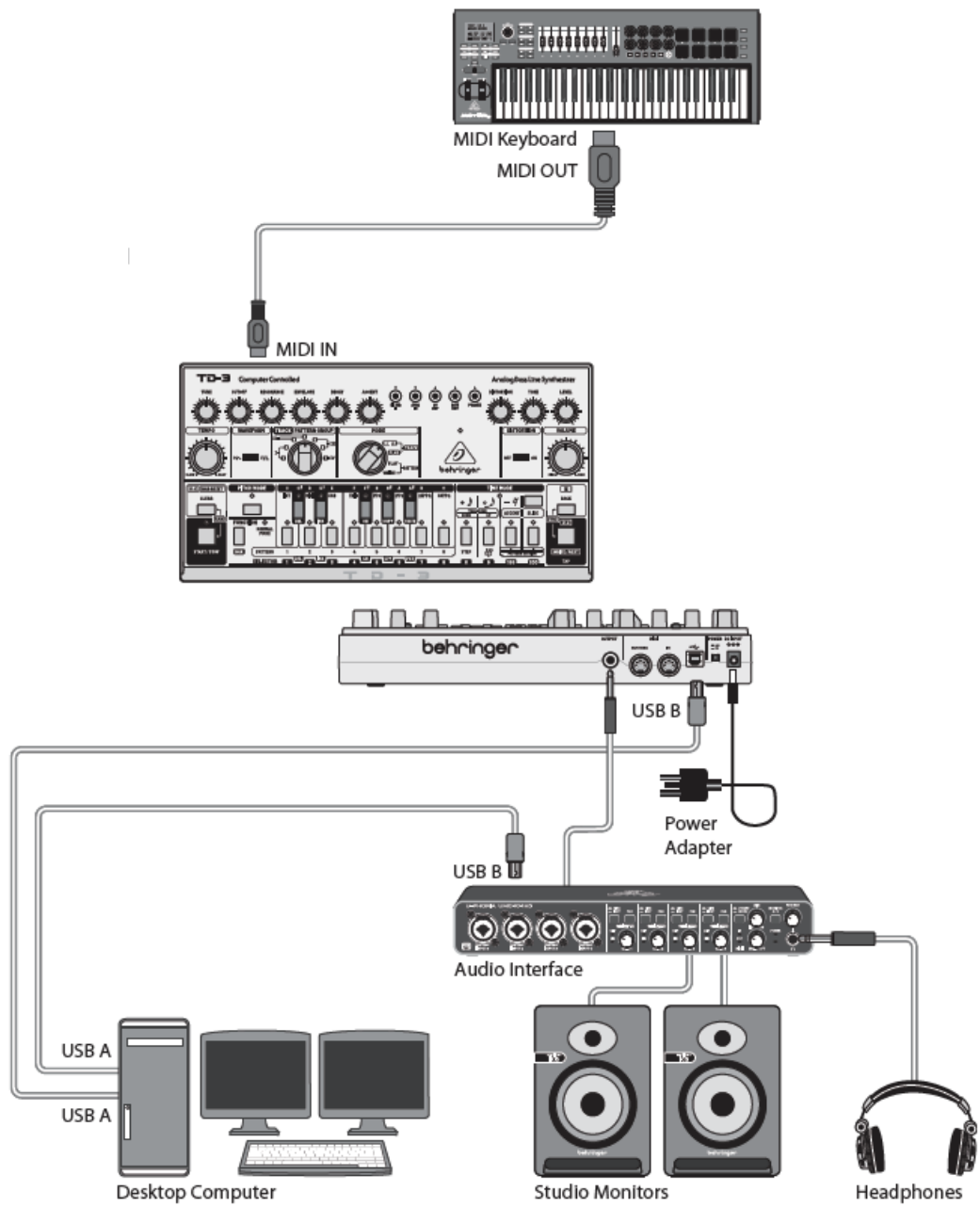
17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.

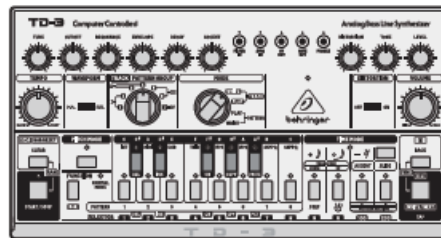21. This apparatus may be used in tropical and moderate climates up to 45°C.

LEGAL DISCLAIMER
Music Tribe accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications,

TD-3 Hook-up
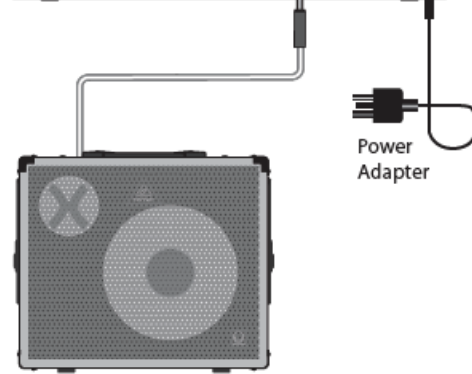Step 1: Hook-Up

MIDI Keyboard

MIDI OUT

MIDI IN

USB B

Power
Adapter

USB B

Audio Interface

USB A

USB A

Desktop Computer

Studio Monitors

Headphones

Power
Adapter

Keyboard Amplifier

Headphones

Power
Adapter

TD-3 Hook-up
Step 1: Hook-Up

MIDI Keyboard

MIDI OUT

Laptop Computer

Footswitch

Expression Pedal

USB B

MIDI IN

Headphones

Power
Adapter

Mixing console

Active Loudspeakers

MIDI Keyboard
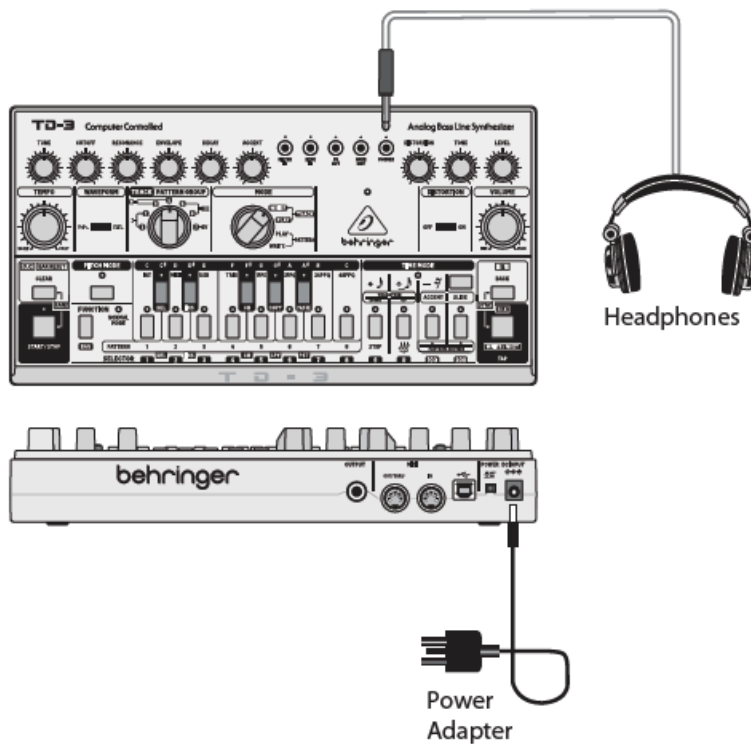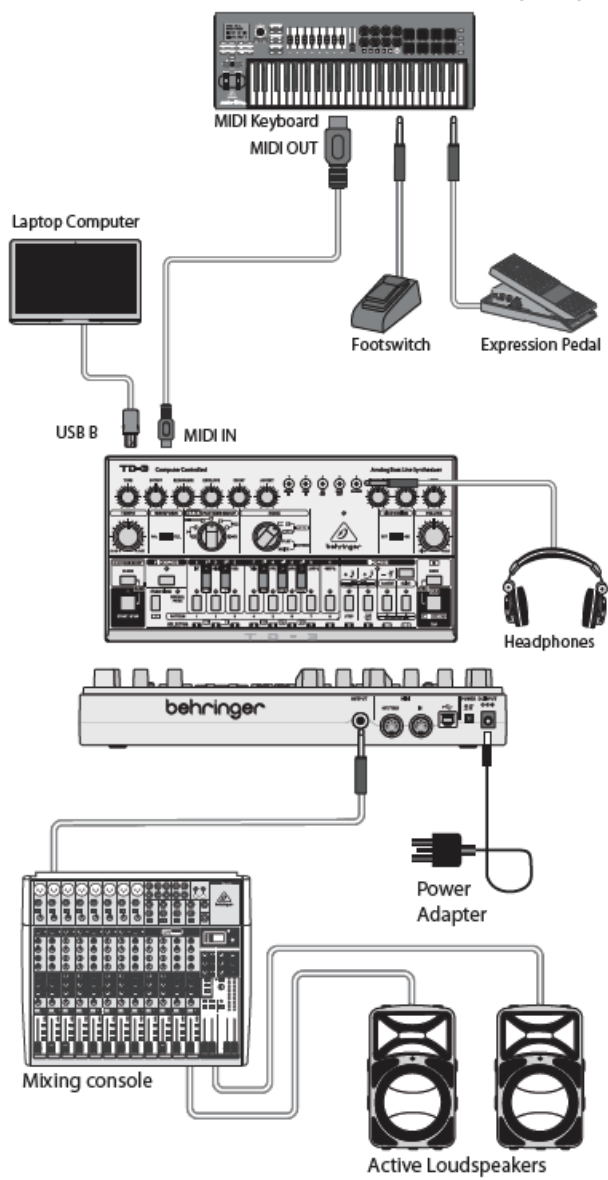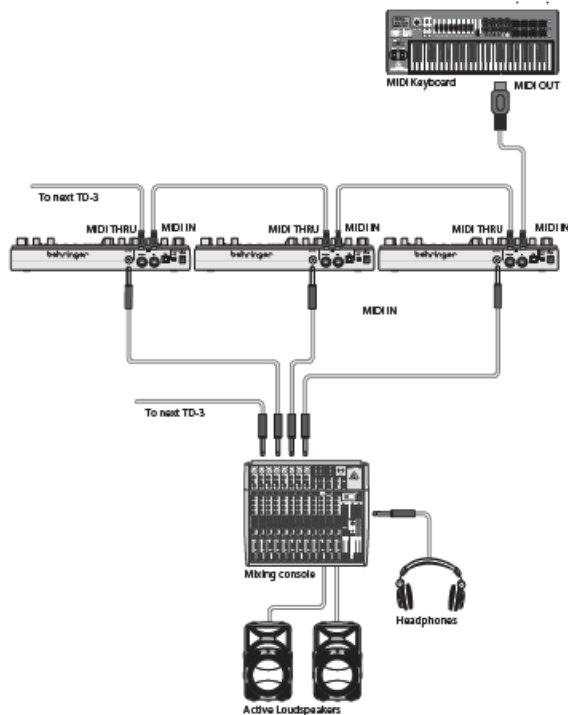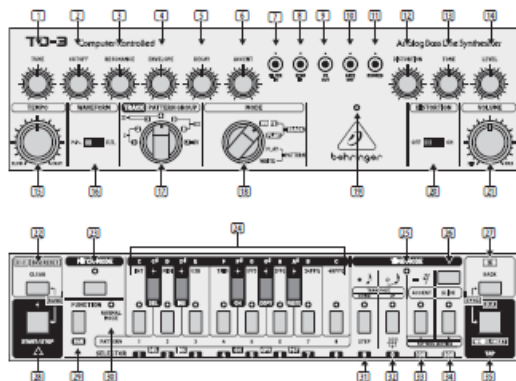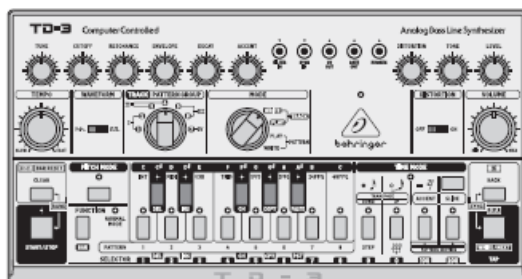
TTDD-3- Controls

TD-3 Controls
Step 2: Controls

1. **TUNE** – adjust the frequency of the internal VCO oscillator, approximately one octave either side of center.
2. **CUTOFF** – adjust the cutoff frequency of the low-pass VCF filter. Frequencies above the cutoff will be
   attenuated, such as the higher-order harmonics.
3. **RESONANCE** – adjust the amount of emphasis given to the signal level at the cutoff frequency.

4. **ENVELOPE** – select the depth of modulation applied by the envelope generator to the VCF cutoff frequency.

5. **DECAY** – control the amount of time taken for the envelope to decay from the current level to minimum.

6. **ACCENT** – adjust the amount of accent given to the output for any notes programmed with an accent.

Patchbay (3.5 mm TS input and output connections)

7. **FILTER IN** – this input allows the connection of an external audio signal instead of the internal VCO oscillator.

8. **SYNC IN** – this input allows the use of an external clock and start/stop signal.

9. **CV OUT** – control voltage output of 1V/octave.

10. **GATE OUT** – gate output. PHONES – connect your headphones to this 3.5 mm TRS output. Make sure the volume is turned down before putting on headphones.

Distortion Section

11. These controls only have an effect when the DISTORTION switch (20) is ON. The circuit is located in the signal path just before the volume control and the final audio output.

12. **DRIVE** – adjust the amount of distortion.

13. **TONE** – adjust the tone.

14. **LEVEL** – adjust the distortion output level.

General Controls

15. **TEMPO** – adjust the rate at which the pattern and tracks play, from slow to fast.

16. **WAVEFORM** – select the waveform of the internal VCO oscillator from reverse sawtooth or pulse.

17. **TRACK/PATTERN GROUP** – select from TRACK 1 to 7 when writing or playing tracks, and PATTERN GROUP I, II, III, IV when writing or playing patterns. Patterns in group I are only available for use in track 1 or 2, patterns in group II for tracks 3 or 4, group III for tracks 5 or 6, and group IV for track 7.

18. **MODE** – select from Track Write, Track Play, Pattern Play, Pattern Write.

19. **POWER LED** – indicates that power is supplied to the unit and the rear-panel power switch is on.

20. **DISTORTION ON/OFF** – when OFF, the distortion is bypassed, and the DRIVE, TONE, and LEVEL controls have no effect.

21. **VOLUME** – adjust the output level from the rear-panel output and the headphones output. Make sure the volume is turned down before putting on headphones.

Sequencer Section

22. **D.C./BAR RESET/CLEAR** – this is used to clear a pattern from memory, to return a track to the beginning, and to signal that the last pattern is being added to a track.

23. **PITCH MODE** – selects the pitch mode on or off. The LED will light when in pitch mode. This mode is used to enter the notes when creating patterns.

24. **13-NOTE KEYBOARD** – these switches are laid out as a 13- note keyboard, allowing notes to be selected when creating patterns. The lower eight switches are also used (39) when creating, saving, and selecting patterns and tracks.

25. **TIME MODE LED** – the LED will light when in TIME MODE.

26. **TIME MODE ON/OFF** – select the TIME MODE on or off. This mode is used when entering the timing (note, tie, or rest) after the notes have been entered in PITCH MODE.

27. **BACK** – when stepping through a pattern, this allows you to select the last played note, so it can be edited. This switch and WRITE/NEXT (35) are used to view and change SYNC and CLOCK settings.

28. **START** / **STOP** – this allows you to start or stop playing the patterns and tracks. The LED will turn on when playing.

29. **FUNCTION** – this multipurpose switch is used to return the TD-3 to normal mode from PITCH MODE and TIME

MODE, and for various operations during pattern and track writing.

30. **NORMAL MODE LED** – this LED will light when the unit is in normal mode.

31. **TRANSPOSE DOWN/NOTE/STEP** – this is used to transpose the octave downwards in PITCH MODE, enter a note in TIME MODE, and to enter the number of steps in a pattern.

32. **TRANSPOSE UP/TIE/TRIPLET** – this is used to transpose the octave upwards in PITCH MODE, enter a tie in TIME MODE, and set the pattern to triplet mode.

33. **ACCENT** / **PATTERN** A – this allows an accent to be added to notes in PITCH MODE, and to select "A" patterns such as 1A, 2A, to 8A.

34. **SLIDE** / **PATTERN** B – this allows a SLIDE to be added to notes in PITCH MODE, and to select "B" patterns, such as 1B, 2B, to 8B.

35. **D.S./WRITE/NEXT/TAP** – this allows a pattern to be written to a track, to select the next note in a pattern, and to add manual timing by tapping. This switch and BACK (27) are used to view and change SYNC and CLOCK settings.

Rear Panel

36. **OUTPUT** – connect this 1/4″ TS output to the line-level audio input of your system. Make sure the volume is turned down and the system is turned off before making connections.

37. **MIDI OUT/THRU** – this 5-pin DIN jack is used to output MIDI OUT data, and pass through MIDI data received at the MIDI INPUT.

38. **MIDI IN** – this 5-pin DIN jack receives MIDI data from an external source. This will commonly be a MIDI keyboard, an external hardware sequencer, a computer equipped with a MIDI interface, etc.

39. **USB PORT** – this USB type B jack allows connection to a computer. The TD-3 will show up as a class-compliant

40. **USB MIDI** device, capable of supporting MIDI in and out.

41. **USB MIDI IN** – accepts incoming MIDI data from an application.

42. **USB MIDI OUT** – sends MIDI data to an application.

43. **POWER** – turn the synthesizer on or off. Make sure all the connections are made before turning on the unit.

44. **DC INPUT** – connect the supplied 9 V DC power adapter here. The power adapter can be plugged into an AC outlet capable of supplying from 100V to 240V at 50 Hz/60 Hz. Use only the power adapter supplied.

TD-3 Getting started

Step 3: Getting started

OVERVIEW

- This 'getting started' guide will help you set up the
- TD-3 analog bass line synthesizer and briefly introduce its capabilities.

CONNECTION
To connect the TD-3 to your system, please consult the connection guide earlier in this document.

SOFTWARE SETUP
The TD-3 is a USB Class Compliant MIDI device, and so no driver installation is required. The TD-3 does not require any additional drivers to work with Windows and MacOS.

HARDWARE SETUP

- Make all the connections in your system. Keep the TD-3 power turned off when making any connections.
- Use only the supplied power adapter for the TD-3.
- Ensure your sound system is turned down.
- Turn on the TD-3 before turning on any power amplifiers, and turn it off last. This will help prevent any turn on or turn off "pops or thumps" in your speakers.

WARM UP TIME
We recommend leaving 15 minutes or more time for the TD-3 to warm up before recording or live performance. (Longer if it has been brought in from the cold.) This will allow the precision analog circuits time to reach their normal operating temperature and tuned performance.

SETTING SYNC and CLOCK TYPE

- Selector switches 1, 2, 3, or 4 represent clock source INT, MIDI, USB, or TRIG respectively
- Selector switches 5, 6, 7, or 8 represent clock rate 1PPs, 2PPQ, 24PPQ, or 48PPQ respectively

1. Press Function.
2. Make sure no sequence is playing.
3. Press BACK and WRITE/NEXT at the same time to enter Sync setting mode.
4. Selector 1 to 8 LEDs will turn on, and the current clock source (1 to 4) and clock rate (5 to 8) will flash, you have about 3 seconds to make any changes.
5. Press Selector 1, 2, 3, or 4 to change the clock source to INT, MIDI, USB, or TRIG respectively
6. Press Selector 5, 6, 7, or 8 to change the clock rate to 1PPs, 2PPQ, 24PPQ, or 48PPQ respectively.
7. Press any other buttons or after no changes for a 3 seconds, the changes are saved.
8. Repeat step 3 to check your selection.

Caution: Clock source must always be INT (internal) if you are not using an external clock. Note: Clock rate 24 or 48 PPQ (Pulses per quarter) are recommended.

TUNING
To quickly start making sounds with your TD-3, use the tuning feature as follows. Note that in this mode, the notes are transposed one octave higher.

1. Make sure the VOLUME is turned down.
2. Set the MODE switch to PATTERN PLAY.
3. Press and hold down the PITCH MODE switch and then press the PATTERN 6 switch (note A).
4. Now, each time you press WRITE/NEXT, you will hear this note in your headphones or speakers. Adjust the VOLUME level to a comfortable listening level.
5. Use the TUNE control to adjust the output frequency to exactly 220 Hz. The frequency can be adjusted up or down, and allow fine tuning to other instruments.
6. To tune to other notes instead of A, press and hold PITCH MODE and then the desired note.
7. Now that the TD-3 can make sounds, you can experiment with the synthesizer controls, and the distortion, and listen to the effects on the sound.

SIGNAL FLOW

The signal path within the TD-3 can be thought of as moving from left to right as follows

1. The TD-3 has one voltage controlled oscillator (VCO) which generates the sound, and can be adjusted by its WAVEFORM and TUNING. The waveform can be selected from reverse-sawtooth or pulse. Listen to the changes in sound that both waveforms make.

2. Next in line is the voltage controlled filter (VCF) where the CUTOFF frequency and RESONANCE can be adjusted. Play with the cutoff frequency, and resonance controls, and listen to their effects on the sound. The classic low-pass filter allows a great deal of control over the sounds created by TD-3. It reduces the level of signals that are above the cutoff frequency, so reducing the levels of the higher-order harmonics.

3. The RESONANCE control gives an enhancement to the signals at the crossover frequency. Rotating it towards maximum will give very interesting effects and self-oscillation.

4. The ENVELOPE and DECAY controls affect the VCF by modulating the cutoff frequency. The controls are dependent on each other, so if the envelope level is high, then the decay effect on the sound will be more noticeable.

5. The ACCENT control affects only those notes in a pattern that have accent assigned.

6. The voltage controlled amplifier (VCA) output then moves through the DISTORTION section (if this is selected). Use the VOLUME control to adjust the level going to your headphones and the main output.

7. Keep the level down low when first putting on headphones.

PATCH BAY SECTION

This section allows you the versatility to connect to other units and modular synthesizer equipment to create many different sounds. The connections are standard 3.5 mm TS, and the voltage requirements are shown in the specifications table. The TD-3 does not need these connections in order to operate, they are used for further expansion of your system.

Caution: Do not overload the 3.5 mm inputs. They can only accept the correct level of voltages as shown in the specification tables. The 3.5 mm outputs should only be connected to inputs capable of receiving the output voltages. Failure to follow these instructions may damage the TD-3 or external units.

SEQUENCER SECTION

Please see the section later in this guide for details of pattern writing and playing, and track writing and playing.

FIRMWARE UPDATE

Please check our website **behringer.com** regularly for any updates to the firmware of your TD-3 synthesizer. The firmware file can be downloaded and stored on your computer, and then used to update the TD-3. It comes with detailed instructions on the update procedure.

HAVE FUN

- The TD-3 has many useful controls to recreate different bass instruments, and to create bass lines. The patch bay allows for further experimentation and expansion to other units and modular synthesizer equipment.
- With all these controls, the possibilities for musical creativity are endless!
- We hope that you will enjoy your new TD-3, and that it will become an essential part of your system.

TD-3 Operation
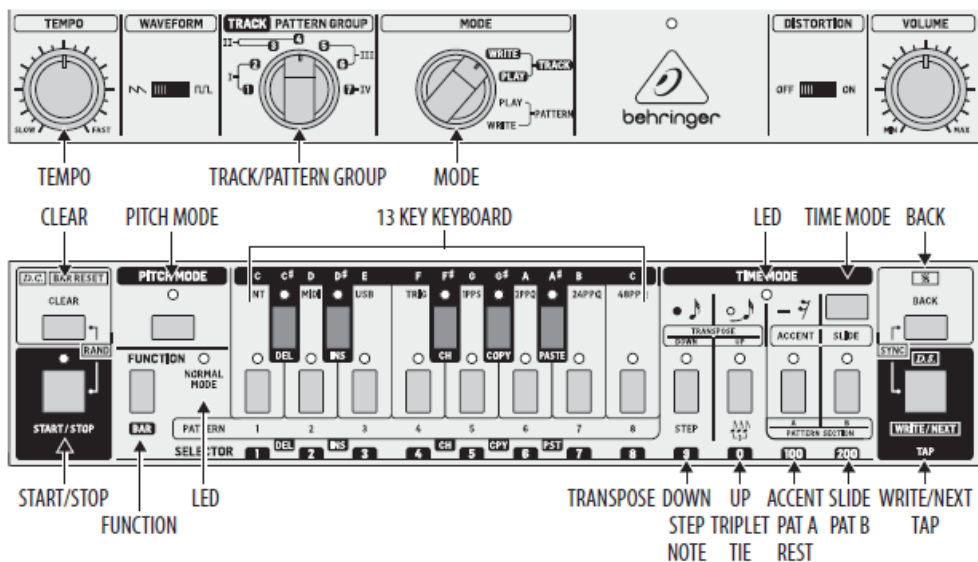
OVERVIEW

- The following details show some of the basic operations of the TD-3. Keep it simple to start with, until you become familiar with the steps required, and it becomes routine.
- There are four pattern groups, I, II, III and IV.
- Each pattern group can have up to eight A patterns and eight B patterns. Each pattern can have up to 16 steps. The default step is a 16th note.
- A pattern of desired notes is first entered in PITCH MODE, and then the timing of each note is added in TIME MODE.
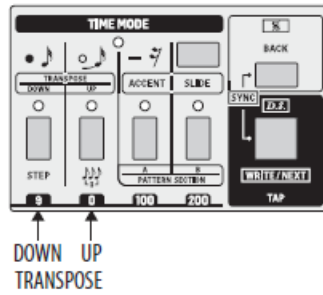
WRITING A PATTERN

As an example, we will program pattern 1A of pattern group I. All writing (pitch and timing) is done in PATTERN WRITE Mode.

Writing the notes in PITCH MODE

1. Turn the MODE switch to PATTERN WRITE.
2. Turn the PATTERN GROUP switch to Group I, position 1 or 2 (it does not matter which).
3. Press FUNCTION, and the nearby NORMAL MODE LED will turn on, and one of the PATTERN switch LEDs will be flashing.
4. Press the PATTERN 1 switch (note C) and its LED will flash, showing that we are getting ready to program it. (Press it anyway, even if it is already flashing.)
5. Press the PATTERN A switch (100) and its LED will turn on (it may even be on already).
6. If PATTERN 1A already exists, press and hold the PATTERN 1 switch and then press CLEAR. If you now press START/STOP, you should not hear a pattern. (Remember to press START/STOP once more to get out of play mode.)
7. Enter the number of steps in your pattern, by holding down FUNCTION and pressing the STEP switch by the number of steps required. For example, you can press it 8 times. If you skip this step, then the pattern will be 16 steps.
8. Press PITCH MODE and its LED will turn on. Now you can enter the notes required for your pattern by pressing any of the 13 notes in the keyboard.
9. To change the octave for a note, press and hold either of the TRANSPOSE up or down switches and then press

the required note.

DOWN UP
TRANSPOSE

Checking and editing notes

10. To listen to the pattern of notes, press PITCH MODE to return to the start of the pattern, and press WRITE/NEXT to play the notes one at a time. (Press PITCH MODE at any time to return to the start.)

11. 1To change a note that has just played, press BACK to go back to that step. Then press the new note (or to change octave, press and hold either of the TRANSPOSE up or down switches and then press the desired note).

12. Continue to press WRITE/NEXT until all notes have been played, or press PITCH MODE to return to the start, or FUNCTION to exit PITCH MODE.

13. To redo the whole pattern, repeat step 3 onwards.

The timing in TIME MODE

After all notes have been entered, you need to enter the timing of each note in TIME MODE. Note: While in TIME MODE, no sounds will be heard.

LED TIME MODE

NOTE TIE REST
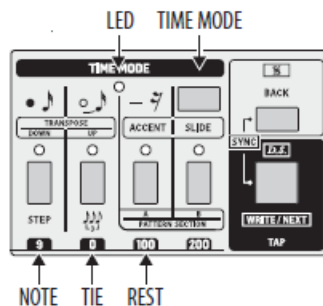
14. Press the TIME MODE switch and its LED will turn on.

15. In TIME MODE, you can play the NOTE as it is, or add a TIE, or a REST using three switches as shown above. For example, for 16 notes, you could press these three switches as follows: Note, Rest, Rest, Note, Tie, Note, Note, Tie, Note, **Note,** Tie, Note, Note, Note, Tie, Note. Whenever you reach the required number of notes (which you set in procedure 7 above), it will automatically exit TIME MODE.

Note: To play all the notes just as they are, repeatedly press the NOTE switch until you exit TIME MODE. This will create a simple Arpeggio.

Checking and editing timing

16. To check the timing is OK, press TIME MODE, and press WRITE/NEXT to cycle through the pattern steps, one at a time. Look at the LEDs to see which step is a note, tie, or rest.

17. To change the timing of the pattern, repeat steps 14 and 15 to re-enter the new timing. (Press TIME MODE at any time to return to the start of the pattern.)

18. Now that the notes and timing have been added, you can play the pattern by pressing FUNCTION to return to normal mode, and then press START/STOP. As the pattern repeats, you can change the TEMPO and adjust the synthesizer controls as required.

Alternative timing method

There is another way of entering the timing:

19. Press FUNCTION and then START/STOP to play the existing pattern.

20. Press the CLEAR switch and you will hear a metronome, with a downbeat at the beginning of the pattern.

21. Tap on the TAP switch, in the timing you would like. Turn down the TEMPO if this will help. To add Sustain, press and hold down TAP.

22. Repeat steps 20 and 21 until the timing sounds good (or repeat steps 14 and 15 if you prefer this method).

TAP
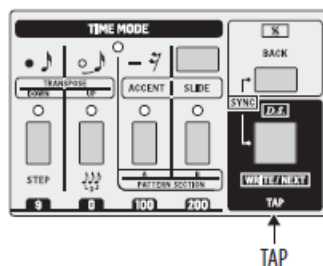
Adding or deleting ACCENT and SLIDE

23. While still in PATTERN WRITE MODE, press PITCH MODE and its LED will turn on. Press WRITE/NEXT repeatedly to play each note of the current pattern.

24. When you reach a note that you would like to add an accent or a slide to, keep holding the WRITE/NEXT (don't release it). If you go past a note you want to change, press BACK first, then press and hold WRITE/NEXT.

25. Press ACCENT and/or SLIDE as required, to add it to the note. (If these are already added to this note, they will be deleted.) Then release WRITE/NEXT.

26. The ACCENT control knob will only affect those notes that have ACCENT applied.

27. If the last note of a pattern is a slide, then:

28. In TRACK PLAY mode, this will slide to the next pattern in a track (when the pattern is added to a track).

29. In PATTERN WRITE/PLAY mode, if there is only one pattern, it will slide to the beginning of itself. If there are two or more patterns, it will slide to next pattern.

PLAYING A PATTERN

Although you can play the patterns while the MODE switch is in the PATTERN WRITE position, use the PATTERN PLAY position during normal pattern playing. This will prevent you from accidentally erasing the patterns with the CLEAR switch.

The patterns are recalled by setting the PATTERN GROUP switch to position I, II, III, or IV and then using the PATTERN switches 1 to 8, and the A and B switches

1. Turn the MODE switch to the PATTERN PLAY position.

2. Turn the PATTERN GROUP switch to the group where your desired pattern was stored, either I, II, III, or IV.

3. Press the FUNCTION switch, and the NORMAL MODE LED will turn on.

4. Press the desired PATTERN switch 1 to 8, and its LED will flash.

5. Press the desired A or B switch and its LED will light.

6. Press the START/STOP switch to play the pattern.

7. Adjust the synthesizer controls, the TEMPO, and the distortion, and have fun.

8. If you press and hold PITCH MODE, and then press one of the 13 keys of the keyboard, the current pattern will be transposed to that key when the pattern restarts.

9. While the pattern is playing, you can press another PATTERN switch 1 to 8, or A or B and it will play that as soon as the current pattern is finished.

10. If you press and hold a PATTERN switch and then press another one at the same time, this will select both patterns and all the patterns in between, and play them in order. This is a good way of hearing multiple patterns before you make a track.

TRACKS

After you have created a few patterns, you can add them together to form a TRACK.

1. Rotate the MODE switch to the TRACK WRITE position.
2. Rotate the TRACK switch to one of the available positions 1 to 7. This also selects the pattern group to be used. For example, TRACK 1 and 2 can only select from patterns saved in PATTERN GROUP I. TRACK 3 and 4 can only select patterns from PATTERN GROUP II.
3. Press CLEAR to reset the track to the beginning.
4. Press START/STOP, and the TD-3 will play the current pattern of the selected track. (Tracks are only written while the unit is playing, and not stopped.)
5. Select the first pattern to add to track. For example, if you wanted to play a previously recorded pattern 2A, press 2 (note D) then press A (labled 100), even if it is already selected, and pattern 2A should play.
6. Press WRITE/NEXT to add this to the track
7. Select the next pattern in the same way. To add a transpose, hold PITCH MODE and choose a key, and the pattern playing will change pitch to the new key.
8. Press WRITE/NEXT to enter this pattern.
9. Continue adding patterns in the same way.
10. When you reach the last pattern, press CLEAR to let the TD-3 know this is the last pattern in the track.
11. Press WRITE/NEXT.
12. Press START/STOP to finish.

Playing Tracks

1. Rotate the MODE switch to the TRACK PLAY position.
2. Rotate the TRACK switch to the desired track.
3. Press CLEAR to reset the track to the beginning.
4. Press START/STOP to play the track.
5. Deleting Patterns from a Track

To remove one pattern from the track, just select that Pattern number. For example, to delete the third pattern in a track:

1. Rotate the MODE switch to the TRACK WRITE position.
2. Rotate the TRACK switch to the track to be edited.
3. Select the third pattern in the track by holding FUNCTION down and pressing PATTERN 3.
4. Delete by holding FUNCTION down and then pressing DEL (C sharp).
5. Rotate the MODE switch to the TRACK PLAY position.
6. Press CLEAR to reset the track to the start.
7. Press START/STOP to play the track and listen to the changes

Inserting Patterns into a Track

For example, to add a pattern before the 5th pattern in a track:

1. Rotate the MODE switch to the TRACK WRITE position.
2. Rotate the TRACK switch to the track to be edited.

3. Select the fifth pattern in the track by holding FUNCTION down and pressing PATTERN 5.

4. Add by holding FUNCTION down and pressing INS (D sharp). The new pattern will be added to the track.

5. Press the START/STOP switch and the current pattern added will play.

6. Select the pattern you want to play by pressing its selector 1 to 8 and the A and B switches.

   The selected pattern will play.

7. Press TAP to store the change.

8. Press START/STOP to stop play.

9. Rotate the MODE switch to the TRACK PLAY position.

10. Press CLEAR to reset the track to the start.

11. Press START/STOP to play the track and listen to the changes.

Overwriting a Track
Existing tracks can be overwritten with a new track. It is not necessary to delete all patterns in a track when writing over an existing track with a shorter track. This is because when the new track plays its last pattern, it will automatically return to the beginning.

TD-3 Poly Chain Function

POWER LED	Mode
Amber	Normal Mode
Red	Poly Chain Mode (not playing)
Green	Poly Chain Mode (playing)

System Mode

Please use the "SynthTool.exe" to configure the Poly Chain mode.
The POWER LED will turn red during Poly Chain mode.

MIDI information

MIDI message

	Status	Second	Third	Parameter	Description
	8n	kk	vv	[0, 7F]	Note Off
Channel Message	9n	kk	vv	[0, 7F]	Note On
	Bn	7B	—	—	All Notes Off
	En	bb	bb	[0, 3FFF]	Pitch Bend
SysRT	F8	—	—	—	Timing Clock
	FA	—	—	—	Start
	FB				Continue
	FC				Stop

Examples

Function	Command(1)
Note on	90 3C 64
Note off	80 3C 40
All notes off	B0 7B

Note: 1, MIDI input channel 1.

Specifications

Synthesizer Architecture	
Number of voices	Monophonic
Type	Analog
Oscillators	1
VCF	1 low pass
Envelopes	1
Connectivity	
Power input	DC input connector
Power switch	Push button on/off
MIDI In/Thru	MIDI In and MIDI Thru, 5-pin DIN
USB (MIDI)	USB 2.0, type B
Outputs	Line output: ¼" TRS, unbalanced, max. +8 dBu
Output impedance	1.5 kΩ
Headphones	3.5 mm TRS, max. 50 mW/32 Ω (1 KHz, 1% THD)
Headphones output impedance	15 Ω
USB	
Type	Class compliant USB 2.0, type B
Supported Operating Systems	Windows 7 or higher
	Mac OS X 10.6.8 or higher

	Mac OS X 10.6.8 or higher
Inputs and Outputs (TS 3.5 mm)	
Inputs	Filter in: +12 dBu Sync in: More than: 2.5 V
Outputs	CV out: +1 V to +5 V (1 volt/oct) Gate out: OFF: 0 V; ON: +12 V
Power Requirements	
External power adaptor (use only the supplied adapter)	9 VDC 670 mA
Power consumption	2 W Maximum
Indicator	Power LED
Environmental	
Operating temperature range	5°C – 45°C (41°F – 113°F)
Physical	
Dimensions (H x W x D)	56 x 305 x 165 mm (2.2 x 12 x 6.5")
Weight	0.8 kg (1.8 lbs)
Shipping weight	1.4 kg (3.1 lbs)

Important information

1. **Register online.**
   Please register your new Music Tribe equipment right after you purchase it by visiting **musictribe.com** . Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. **Malfunction**. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under "Support" at **musictribe.com** Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at **musictribe.com** Alternatively, please submit an online warranty claim at **musictribe.com** BEFORE returning the product.

3. **Power Connections.** Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

- Behringer
- TD-3
- **Responsible Party Name**: Music Tribe Commercial NV Inc. 122 E. 42nd St.1,
- **Address:** 8th Floor NY, NY 10168, United States
- **legal@musictribe.com**

TD-3
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Important information
Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

Hereby, Music Tribe declares that this product is in compliance with Directive 2014/35/EU,Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

- Full text of EU DoC is available at **https://community.musictribe.com/**
- **EU Representative:** Music Tribe Brands DK A/S
- **Address**: Gammel Strand 44, DK-1202 København K, Denmark
- UK **Representative**: Music Tribe Brands UK Ltd.
- **Address:** 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom

Documents / Resources

behringer TD-3 Analog Bass Line Synthesizer [pdf] User Guide
TD-3 Analog Bass Line Synthesizer, TD-3, Analog Bass Line Synthesizer, Line Synthesizer, Synthesizer

References

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- **User Manual**