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STROBE TUNERS
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STROB+PLUS HD™

BodyBeat Metronome Instruction Manual

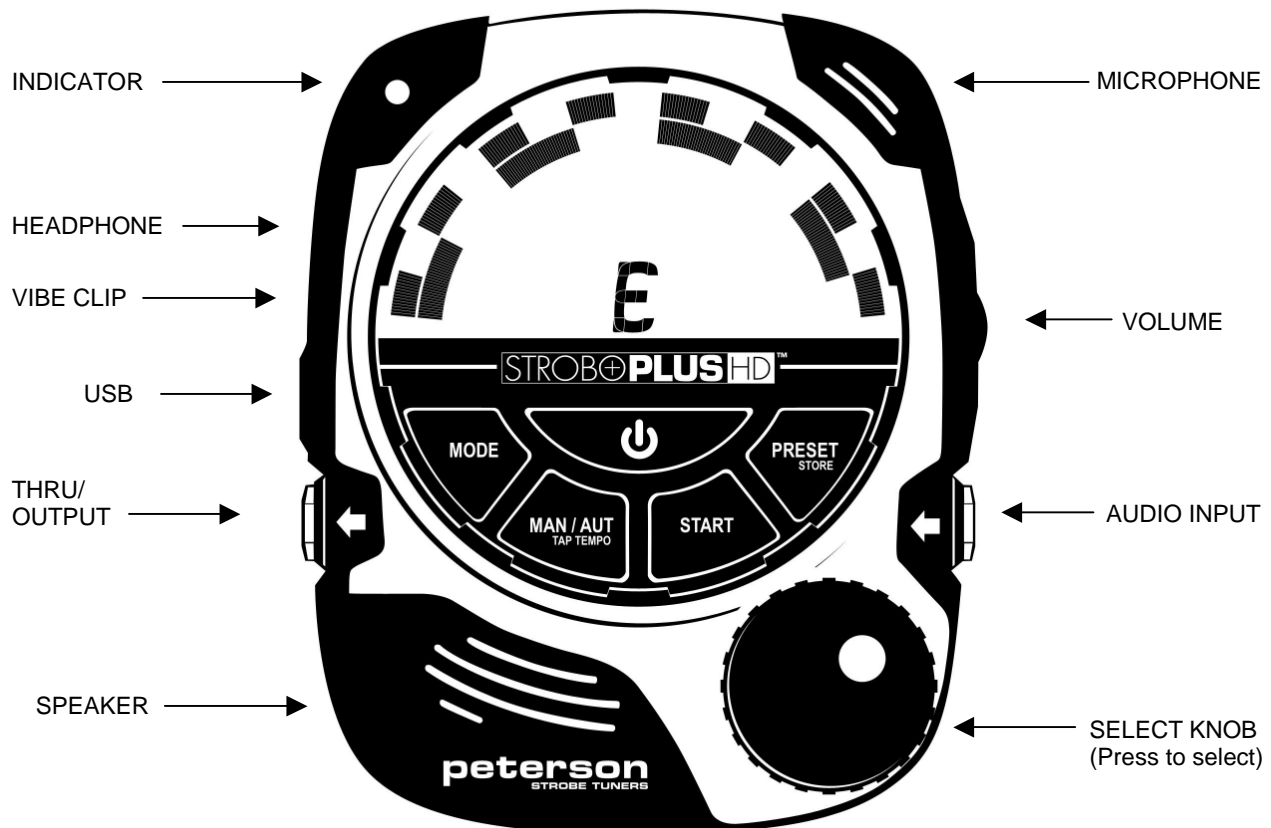
Power

The StrobePlus™ contains a powerful internal rechargeable Lithium-Ion battery. Before initial use, we recommend that this battery be charged fully using either a USB power adapter or by connecting the StrobePlus to a computer USB port via the USB cable. The StrobePlus can run off of USB power alone. Charging time is approximately 2 hours. To conserve battery life, the StrobePlus will power off after 10 minutes of inactivity if not in use. In addition, the LCD backlight will turn off after 10 seconds of inactivity. If the battery voltage becomes too low, the StrobePlus will power off to protect its Lithium Ion battery.

Tripod mount

The StrobePlus has a standard tripod screw mount on the back so that you can use a variety of connection devices to mount it on an instrument, mic stand, music stand or other convenient place. See the Peterson website to purchase appropriate holders such as the Peterson Pitch Holder™.

CONNECTIONS



Headphone Output

The internal speaker will be shut off and the output will be sent to headphones or an external PA system from the 3.5 mm jack when a plug is inserted.

Vibe Clip™ Output

The Vibe Clip allows metronome beat delivery via tactile pulses and is available through our Online Store.

USB/Power Socket

This socket can be used to power or recharge the StrobePlus internal battery from any standard 5V cell phone-style charger with a micro USB connector or from the USB connection on a computer. The socket is also used to connect to the Peterson website for updating the firmware or uploading custom settings or configurations for the StrobePlus and for uploading Tempo Maps.

Thru/Output Jack ¼”

The Input Jack’s signal will be routed to this jack for output to an amplifier or other sound equipment.

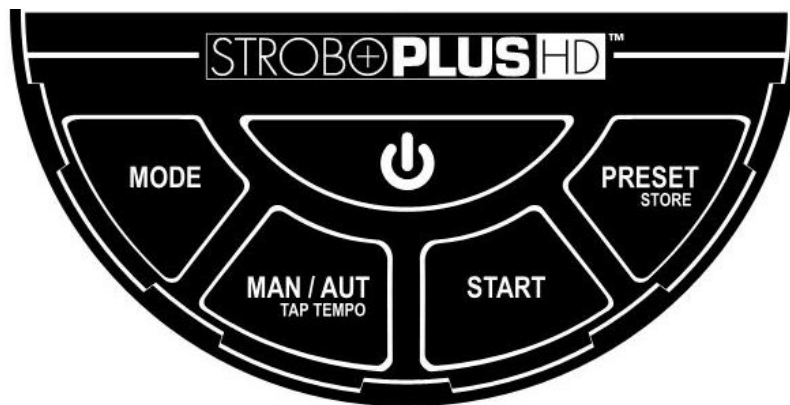
Volume Control

This control adjusts the volume of the audio including metronome clicks.

Input Jack ¼”

To tune, plug the instrument output cable, external microphone, or a Peterson “TP” vibration tuning pickup into this input jack.

USER INTERFACE



How to Turn StrobePlus™ On

Press and hold the Power Button until your StrobePlus powers on. If the battery is drained, StrobePlus will require a few minutes of charge time before it can be powered on.

How to Turn StrobePlus Off

Press and hold the Power Button for two seconds.

Mode Select

The Mode Button selects what mode the StrobePlus™ is currently operating in. Three modes are possible: Strobe Tuner, Audio Tuner, or Metronome.

How to Edit Parameters via the User Interface

The StrobePlus has a very intuitive user interface that makes it easy to quickly change any parameter that you desire. A single Select Knob is used first to determine which parameter will be adjusted, and then to actually adjust the value of that parameter through this two-step process:

Select the Parameter

Rotating the Select Knob sequences through the available parameters. The current parameter is indicated by its value blinking. Pressing the Select Knob enables the Edit Menu for the parameter you have chosen.

Edit the Parameter

The parameter value to be edited will blink. Rotating the Select Knob changes the value of the blinking parameter. Pressing the Select Knob now will exit the Edit Menu and return the screen to normal operation. In the metronome mode, Tempo is the default/normal setting that the StrobePlus returns to after a few seconds with no adjustments by the user.

From the normal screen (with nothing blinking), pressing the Select Knob will activate the Edit Menu for Tempo (or the most recently selected parameter).

Advanced User Controls

Locking the Active Edit Menu

To prevent the automatic timeout and closing of a parameter's Edit Menu, first activate the Edit Menu. Then press & hold the Select Knob for 2 seconds. The screen will return to normal but the selected parameter will continue to blink and the Select Knob will continue to edit that parameter indefinitely. The automatic menu time out will be disabled. To exit the locked Edit Menu, press the Select Knob until the screen returns to normal.

Note: Locking a parameter in the Edit Menu can be handy when you desire to edit that parameter over a period of time.

Selectable Parameters

This manual only covers the metronome functions. You received a printed tuner manual with the StrobePlus and you can also view one online at http://www.petersontuners.com/media/pdf/StrobePlus_OM.pdf .

StroboPlus BodyBeat Metronome Functions

Tempo Select

Tempo select is the default parameter that is adjusted by the Select Knob in metronome mode. Rotating the Select Knob clockwise increments the value while counter-clockwise decrements the value.

Note: Tempo is always set in quarter notes per minute. Be sure to calculate the correct tempo for meters in which the quarter note does not represent one beat.

Tap Tempo

Tempo can also be set by “tapping” the beat on the Tap Tempo Button (also used as the MAN/ AUTO note select for tuner modes). When entering a tempo by using the Tap Tempo feature, each tap is assumed as 1 beat of the current meter setting unless an Accent Pattern is selected, in which case you may enter the tempo by tapping the accented beats only. For example - in 7/8 with a 2-2-3 accent pattern you can set the tempo by tapping quarter note, quarter note, dotted quarter note a few times in succession.

Meter Select

Rotate the Select Knob to adjust first the Beats Per Measure setting (numerator) and then the Beat Value setting (denominator). For each of these parameters, press the Select Knob and the active component will flash. Once the parameter is flashing, the Select Knob will increment or decrement the active component.

The Beats Per Measure parameter can be adjusted from 1 to 12. Adjusting the Beats Per Measure parameter will clear any active Accent Pattern, as the list of available Accent Patterns is dependent on Beats Per Measure. The Beat Value parameter has a list of possible values consisting of 2,4,8,16. Adjusting the Beat Value parameter will reset any Subdivision setting, as the list of available Subdivisions is dependent on the Beat Value.

Subdivision Select

Turn the Select Knob until the Subdivisions icon is flashing, then press the Select Knob. Turning the Select Knob will now increment or decrement through the list of available subdivisions.

Note: The list of available subdivisions is dependent on the Beat Value chosen within the Meter setting. For a complete list of available subdivisions relative to the Meter setting, see Appendix A. - Subdivisions

Accent Pattern Select

Turn the Select Knob until the Accent icon is flashing, then press the Select Knob. Turning the Select Knob will now increment or decrement through the list of available Accent Patterns. Accent Patterns help in counting complex Meters by dividing the total Beats Per Measure into different combinations of 2 and 3 counts.

Note: The list of available Accent Patterns is dependent on the Beats Per Measure Value chosen within the Meter setting. Since the list of available Accent Patterns consists of every possible combination of 2 and 3 that will add up to the current Beats Per Measure, there are no Accent Patterns available for Meters with a Beats Per Measure setting of 1-3. For a complete list of available Accent Patterns relative to the Meter setting, see Appendix B. - Accent Patterns

Selecting a Metronome Voice

The StroboPlus has four available voices, or sets of sounds for metronome playback when using the StroboPlus as an audible metronome. Each voice or sound set has three distinct parts, which play different roles within the rhythmic pattern. The available metronome voices are 1.) Rimshot, 2.) Clave, 3.) Wood Block and 4.) Beep. To select a different voice, turn the Select Knob until the Voice icon flashes. Press the Select Knob once, then turn the Select Knob to display the desired voice number. Press the knob one more time or wait for the Edit Menu to time out.

Note: When using the StrobePlus with the Vibe Clip as a tactile, pulsating metronome, the voice parts are instead felt as levels of intensity. High, medium and low intensity vibrations correspond to the high, medium and low pitches within the voices.

Using the StrobePlus with the Vibe Clip

The StrobePlus can be used as a tactile, pulsating metronome with the help of the optional Vibe Clip. The built-in speaker and headphone output will automatically be silenced when a Vibe Clip is plugged into its designated jack. The Vibe Clip allows the rhythm to be transmitted from the StrobePlus to the user invisibly and silently via vibration. The Vibe Clip can be purchased from the Peterson Online Store.

<https://www.peterson tuners.com/index.cfm?category=135&action=itemView&itemID=40>

Apply the Vibe Clip to one of the following areas:

1. Waist area along the belt-line.
2. Hip area near the pelvic bone
3. Nape of the neck
4. Shoe top or ankle area
5. Sleeve or pocket



Note: Be sure that the correct (capsule) side of the Vibe Clip is facing the body. If the vibration is too intense, turn the capsule away from the body.

Presets

Creating a New Preset

When your StrobePlus displays a combination of settings that you wish to save as a preset, press and hold the Preset/Store button until the word “Preset”, a number, and the word ADD or SAV (“save”) appear. If other presets have already been saved and you wish to create an additional one, turn the encoder knob until the word “ADD” instead of “SAV” is shown. This will also display a preset number that has not already been used. Press the Preset/ Store button again momentarily to confirm. The display will briefly show a circular animation to indicate that your StrobePlus is saving your preset. If "ADD" does not show, you have entered the maximum number of presets.

Overwriting an Existing Preset

To store the displayed combination of settings by overwriting the values already assigned to a particular preset number, press and hold the Preset/Store button for two seconds. Rotate the Select Knob until the preset number you wish to edit is displayed, along with the abbreviated word “SAV”. Press the Preset/ Store button momentarily. A circular animation indicates that your values are saved to that preset number.

Deleting an Existing Preset

To delete a preset that was previously created, momentarily press the Preset/ Store button. Rotate the Select Knob to display the preset number that you wish to delete, then press and hold the Select Knob for a few seconds. The abbreviated word “DEL” will appear for a few seconds; continue to press the knob until you see a circular animation. The "DEL" will then disappear which will indicate that the preset was deleted. All higher-numbered preset combinations will have now shifted to a lower preset number accordingly.

Recalling a Preset for Use

To use a combination of settings that was previously saved as a preset on your StrobePlus, momentarily press the Preset/ Store button. Turn the Select Knob to display the preset number you wish to recall. A moment after you stop turning the Select Knob, the display will change from the preset number to the values associated with that preset. To begin using those values, simply wait a few seconds without turning or pressing the Select Knob, or to immediately accept the displayed values momentarily press the Power Button once.

Tempo Maps

The StrobePlus is capable of storing nine MIDI Tempo Maps in its local memory. A MIDI Tempo Map is a MIDI file that has been imported into the StrobePlus via the USB software. Once imported, only the number of bars, meter changes, and tempo changes are stored in the StrobePlus memory. All instrument, track and pitch information is ignored. It is then referred to as a MIDI Tempo Map. Up to 999 bars can be stored in each of nine memory locations.



MIDI Tempo Maps can also be created from scratch using a free Peterson online tool. To download the latest version of the USB software and obtain further instruction on how to import MIDI files as MIDI Tempo Maps, or to design your own Tempo Maps, visit <http://www.bodybeat.net/>

Connect your StrobePlus to a computer using the provided USB cable. After the computer recognizes and installs the device automatically, open the BodyBeat USB software. (In Windows XP only, select USB Audio Device as both the MIDI In and MIDI Out Devices). For each of the 9 memory slots, you may now browse to the location in which you saved a MIDI Tempo Map and select the .MID file.

Count In: Set a number of bars to count in for each Tempo Map by using the up and down arrows or simply typing in the number. The StrobePlus will count the specified number of bars in the same meter and tempo as the current bar when Play is pressed. The count-in bars will be shown as negative numbers. You may set count-in from 0-8 bars (0 for no count in).

Loop: Checking this box will continuously loop your Tempo Map until it is manually stopped. This makes it easy to rehearse short multi-bar patterns that contain meter and/or tempo changes.

Once you have finished selecting Tempo Maps, press the button labeled “Sync” to transfer Tempo Map data to your StrobePlus. You may archive and recall an entire bank (all 9 slots) of Tempo Maps into one “backup” file using the “Load File” and “Save File” buttons. Pressing “Clear All” will remove all Tempo Map files from all 9 locations.

Selecting a Tempo Map

Once you have imported a Tempo Map into at least one memory slot of the StrobePlus, select the parameter with the “M- --“ icon and press the Select Knob. (the -- will show the Tempo Map number if there are any stored Tempo Maps). Use the Select Knob to select the Tempo Map you wish to play.

Press the Start Button to play and pause your Tempo Map. The Bar Display will show the current bar of the Tempo Map. The Select Knob can be used to navigate through the bars of the Tempo Map when stopped.

To exit the Tempo Map function set the M selection to -- .

Note: Currently, the StrobePlus will not play transitional tempo changes that occur gradually over multiple bars. The tempo change will happen only at the downbeat of each bar.

Configuration Menu

This menu is used to reset your StrobePlus to factory default settings and find out what firmware and hardware version the device has.

To enter the Configuration Menu, press the Power Button and the Mode Button at the same time.

The first setting to show will be **C** indicating the type of configuration currently loaded, either **FDR**= Factory Default Reset or **USR**= User Configured. **USR** indicates that there has been a user configuration created on the PetersonConnect™ site and loaded into the device. While the “C” is flashing, to return to the factory default configuration, press the Select Knob once, select FDR by turning the Select Knob, and then press the Select Knob once again. If only -- -- -- is shown, there is no user configuration in this device.

Rotating the Selector Knob while C is flashing will next show F and the firmware that is currently installed in your tuner. There will be three numbers which indicate the installed firmware version.

When you rotate the Select Knob again, the “H” screen will indicate the hardware version of this device.

To exit the Configuration Menu, press the Mode Button.

Appendix A - Subdivisions

The available list of subdivisions varies depending upon the Beat Value parameter of the Meter setting. Subdivisions will always be notated correctly as one whole beat of the selected meter. The following chart shows the available subdivisions in relation to meter. The Beats Per Measure parameter does not affect subdivisions and is shown in grey.

$\frac{4}{2}$	$\frac{4}{4}$	$\frac{4}{8}$	$\frac{4}{16}$

Appendix B - Accent Patterns

The available list of accent patterns varies depending upon the Beats Per Measure parameter of the Meter setting. Accent Patterns will always be notated as a combination of 2 and 3 counts that add up to the Beats Per Measure parameter of the selected meter. The last accent pattern in each list is shown as and signifies no accent pattern AND no accented downbeat. All accent patterns are available both “as written” and with only the accented beats sounding (or vibrating when the optional Vibe Clip is used).

$\frac{4}{4}$	$\frac{7}{8}$ ACCENTS 2-2-3	$\frac{7}{8}$
$\frac{4}{4}$ 2-2		
$\frac{5}{4}$ 2-3 3-2		$\frac{6}{4}$ 2-2-2 3-3
$\frac{7}{4}$ 2-2-3 2-3-2 3-2-2		$\frac{8}{4}$ 2-2-2-2 2-3-3 3-2-3 3-3-2
$\frac{9}{4}$ 3-3-3 2-2-2-3 2-2-3-2 2-3-2-2 3-2-2-2		
$\frac{10}{4}$ 2-2-2-2-2 2-2-3-3 2-3-2-3 3-2-2-3 3-2-3-2 3-3-2-2 2-3-3-2		
$\frac{11}{4}$ 2-2-2-2-3 2-2-2-3-2 2-2-3-2-2 2-3-2-2-2 3-2-2-2-2 3-3-3-2 3-3-2-3 3-2-3-3 2-3-3-3		
$\frac{12}{4}$ 2-2-2-2-2-2 2-2-2-3-3 2-2-3-2-3 2-3-2-2-3 3-2-2-2-3 3-2-2-3-2 3-2-3-2-2 3-3-2-2-2 2-3-3-2-2 2-2-3-3-2 2-3-2-3-2 3-3-3-3		