

OWNER'S MANUAL

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FCC Statement

This device 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
- This device must accept any interference received, including interference that may cause undesired operation.

Note: 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:

- *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.

Caution

Any changes or modifications not expressely approved by the party responsible for compliance could cause the module to cease to comply with FCC rules part 15, and thus void the user's authority to operate the equipment.

Warranty

We warrant this product to be free of defects in materials or workmanship for a period of ONE year after delivery to the original purchaser. Our obligation under this warranty is limited to the replacement or repair of any part or parts which prove upon our examination to be defective.

This warranty does not apply to damage resulting from transportation, misuse, abuse, or alteration. The complete unit must be returned to our factory, transportation charges prepaid. In order to speed the return of the unit to you, it is recommended that for all repairs, other than those required as a result of shipping damage, you deal directly with our factory. In case of damage in shipment, a claim should be filed with the carrier. Be sure to include a brief description of the difficulty you are experiencing and your return address.

The above warranty is contingent upon registration within 10 days of the date of receipt of the product by the original purchaser. The warranty conveys specific legal rights to the purchaser; other rights vary from state to state and internationally.

Register on-line at: http://www.petersontuners.com/warranty

Join the BodyBeat Users Forum at: http://www.petersontuners.com/forum

Thank you for your purchase of the Peterson BBS-1 BodyBeat Sync. Please take the time to read this instruction manual so that you may get the most out of it. This metronome represents the ultimate in musical tempo monitoring devices. As a fully featured metronome, it is capable of transmitting the beat by visual, aural and tactile means. Wireless functionality allows two or more BodyBeat Syncs to work in synchronicity with one another, allowing the networking of multiple units on stage, in the recording studio, band room or anywhere the precise synchronization of a performance and its performers is required.

Included Items

- 1 BodyBeat Sync Metronome
- 1 Vibe Clip
- 1 Owner's manual
- 1 3.7V Lithium Ion Battery
- 1 Mini USB Cable



Power

The BodyBeat Sync contains a powerful internal rechargeable Lithium Ion battery. Before initial use, this battery will need to be installed and charged fully, using either a USB power adapter, or by connecting the BodyBeat Sync to a computer USB port via the USB cable. The BodyBeat Sync will not run off of USB power alone. Charging time is approximately 1.5 hours.

Battery Conservation

The BodyBeat Sync will power off after 10 minutes of inactivity if the metronome is not running. In addition, the LCD backlight will turn off after 10 seconds of inactivity. If the battery voltage becomes too low, the BodyBeat Sync will power off to protect its Lithium Ion Battery.



(1) Vibe Clip Output

Plug the Vibe Clip into this socket and attach the Vibe Clip to your belt to feel the beat.

2 Aux Output

This output jack can be connected to the trigger input of a suitable audio device.

3 Headphone Output

The internal speaker will be shut off when headphones are used. (3.5mm headphone connection)

4 USB/Power Socket

This socket can be used to charge the BodyBeat Sync's internal battery; power the BodyBeat Sync from a power supply; or connect to a computer for charging, importing MIDI tempo maps and firmware updates.



1 Preset/Bar/MIDI Select

Toggles the BodyBeat Sync between displaying the Preset Number or the Bar/Measure counter.

SHIFT FUNCTION - Pressing this button while holding the Shift button (2) will activate MIDI Tempo Map mode if there have been MIDI tempo maps loaded into memory via USB.

(2) Pitch/Voice Select

Enters "Pitch" mode for tuning to a reference note. The first press activates the chromatic tuning note while the second press activates the variable Concert A setting. A third press will return to Metronome mode.

SHIFT FUNCTION - Pressing this button while holding the Shift button (12) will enter "Voice Select" mode allowing the user to change the sound of the metronome click.

7-

3 Sync Control

Activates the current Sync Mode (see ④ 'Sync Mode Select') of the BodyBeat Sync.



In "Master Mode", pressing and holding the Sync Control Button will initiate a new group.

The "O.R." icon will appear on the LCD signifying "Open Registration" as well as the Wireless Icon.

During this time the group is open for new members to join. Pressing and holding the Sync

Control button after a new group has been created will toggle in and out of "Open Registration" mode to control when members may join the group.



In "Sync Mode", pressing the Sync Control Button once will search for the nearest open group. If a master unit is found within range and in Open Registration, the "Sync" graphic on the LCD display will change to "Sync'd" and the Wireless Icon will appear to show signal strength.

4 Sync Mode Select

Toggles through the three possible metronome modes consisting of "Solo Mode" (independent operation), "Master Mode" (group leader) and "Sync Mode" (group member). Pressing the SYNC button then activates the selected mode. (see 3 'Sync Control')

Pressing and holding Sync Mode Select while in Master Mode after a group is established will destroy the group and return the BodyBeat Sync to Solo Mode.

Pressing and holding Sync Mode Select while in Sync Mode after a group has been joined will disconnect from the group and return the BodyBeat Sync to Solo Mode.

(5) Volume Control

Adjusts the volume of either the on-board speaker or headphones for all audible output.

(6) Tempo Select

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.

Tempo can also be set by "tapping" the beat on the ① Value Wheel. When entering a tempo by using the Tap Tempo feature, each tap is assumed as 1 beat of the current Meter setting and not necessarily 1 Quarter Note.

7 Meter Select

Activates the Meter Mode. Subsequent presses of the Meter Button will toggle between the Beats Per Measure setting (numerator) and the Beat Value setting (denominator). The active component will flash with the Meter icon. Once selected, the ① Value Wheel will increment or decrement the active component.

The Beats Per Measure parameter can be adjust 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.

(8) Subdivision Select

Activates the Subdivision Mode. Once selected, the ① Value Wheel will 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

Activates the Accent Pattern Mode. Once selected, the ① Value Wheel will 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.

(10) Value Wheel / Tap Tempo Control.

Turning the wheel will alter the value of whatever parameter has been selected using the right row of buttons ⑥- ⑨. Rotating the wheel clockwise increments the value while counter-clockwise decrements the value. If a parameter has not recently been selected or changed (within 8 seconds), the Value Wheel will affect the tempo setting as default. Pressing in or down on the wheel repeatedly will set the tempo via Tap Tempo Mode. For more information on Tap Tempo see ⑥ Tempo Select.

E

Note: When editing preset parameters, the "E" icon will appear at the top of the LCD to signify that a preset has been edited but not stored. Your changes will be lost if the preset is not stored.

11) Previous Preset / Previous Bar / Seek

Steps backwards through the list of 100 available user presets when the Preset is displayed on the LCD. Steps backwards through the bars or measures of a preset or MIDI tempo map when Bar is displayed on the LCD. This button is also used to step backwards through voices when in Voice Selection Mode ②.

SHIFT FUNCTION: - If Bar is currently displayed on the LCD, pressing this button once while holding the Shift button (1) will 'seek' backwards to the last bar or measure the user started from. Pressing again while holding shift will return to Bar 1.

(12) Store Preset / Shift

Stores the current settings (Tempo, Meter, Subdivision, Accent Pattern) to the desired Preset location. Pressing Store will clear the display, leaving only the word Preset and a flashing number that is selectable from 1 to 100. Pressing Store again will save all settings to the selected number location. This allows for easy copying of presets by selecting a previously stored preset, pressing store, and saving to a new location.

SHIFT FUNCTION: - If pressed and held before pressing another button, this button is used to alter the function of other controls on the BodyBeat Sync. See "SHIFT FUNCTION" within each button description.

(13) Next Preset / Next Bar / Seek

Steps forwards through the list of 100 available user presets when the Preset is displayed on the LCD. Steps forwards through the bars or measures of a preset or MIDI tempo map when Bar is displayed on the LCD. This button is also used to step forwards through voices when in Voice Selection Mode 2.

SHIFT FUNCTION: - If Bar is currently displayed on the LCD, pressing this button once while holding the Shift button (2) will 'seek' forwards to the last bar or measure the user started from. Pressing again while holding shift will return to Bar 1.

(14) Panel Lock

Sliding this switch to the right will disable all of the controls on the BodyBeat Sync to prevent the accidental alteration of any settings during use. A "locked" icon will be revealed on the switch as well as on the LCD display. Sliding the switch back to the left will reveal an "unlocked" icon and will re-enable the controls for use. When locked, the "locked" icon will flash when any button is pressed to remind the user that the panel has been locked.



The Panel Lock switch does not disable the ability to power the unit on or off or to adjust the volume. Powering the unit off does, however, require the use of the Shift Key to avoid accidentally turning the unit off during normal operation. See (5) Start/Stop On/Off.

(15) Start / Stop - On / Off

Starts and Stops the Metronome both in normal Metronome Preset mode and in MIDI Tempo Map Playback mode. When the unit is off, pressing and holding this button for 2 seconds will power the unit on.

SHIFT FUNCTION: - When the unit is on, pressing and holding this button for 2 seconds while holding the Shift button (12) will power the unit off.

Basic Metronome Functions

LCD Display Areas





Preset / Voice / Bar / Note Display - In normal metronome operation, these three digits will display either the bar counter or the current active preset. In tuning mode, the right-most digit will display the note letter along with the sharp and flat symbol while the left-most digit will display the octave number. In voice select mode, the center digit will display 1-4 voice numbers. Practice Patterns beyond preset 100 will display as 3 digit alphanumeric abbreviations.



Tempo / Concert A Display - In normal metronome operation, these four digits will display the beats per minute of the active preset or tempo map in 1/10th BPM resolution from 10-280. Note the decimal point. In Tuning mode, the Concert A reference will be displayed in 1/10th Hz resolution from 390Hz to 490Hz.

SOLO MASTER SYNCD

Sync Mode Display - Displays the current sync mode. The $\dot{\boldsymbol{\rho}}$ will appear in Sync mode when the unit has successfully joined a group.



Meter Display - The meter or time signature of the active preset or tempo map is displayed here. The Beats Per Measure (numerator) range is 1-12, while the Beat Value (denominator) can be either 2,4,8 or 16.

ACCENTS 2-2-2-2 Accent Pattern Display - Displays the accent pattern of the active preset. If no accent pattern is selected or there are no available accent patterns for the current meter setting, this section will not be visible. A combination of 2 and 3 icons that add up to the current Beats Per Measure parameter is displayed. When the metronome is playing, an underline travels through the pattern, left to right, to signify which section is currently playing. Accent Patterns are not selectable in either Tempo Map playback or Practice Pattern modes.

Available Accent Patterns are dependent upon the current Beats Per Measure parameter of the Meter setting. For more about Accent Patterns, see Appendix B - Accent Patterns



Conductor Bars / Updating Display - In normal metronome operation, these five bars will animate a "rise and fall" that coincides with the beat, much like a conductor's downbeat motion. If the tempo becomes too fast to visually convey the beat, the conductor bars will conduct the whole measure as one revolution. When updating firmware via the USB port, the updating label is displayed while the bars animate to signify the progress of the update.



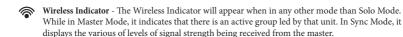
Subdivision Display - Displays the subdivision of the active preset. Subdivisions will always display correctly notated as one whole beat of the current meter or time signature. Subdivisions are not selectable in either Tempo Map playback or Practice Pattern modes.

Available Subdivisions are dependent upon the current Beat Value parameter of the Meter setting. For more about Subdivisions, see Appendix A - Subdivisions



MIDI Indicator - When playing back a MIDI Tempo Map, the MIDI icon will appear as well as the number (1 - 9) of the tempo map being played. When the BodyBeat Sync is receiving MIDI Clock via the USB port, only the MIDI icon will display.

- Open Registration Icon Appears when a BodyBeat sync in Master Mode starts a new group or reopens an existing group. Members can only join when this icon is displayed on the Master.
- Edited Icon Appears when a preset parameter has been edited but not yet saved.



Panel Lock Icon - This icon appears when the Panel Lock Switch has been set to the "lock" position, disabling all controls. When a button is pushed and the panel has been locked, the icon will flash to remind the user that the panel has been locked.

Note: The Panel Lock Icon will also flash when a unit has been "syncid" and a button is pressed to indicate that the metronome settings of a syncid unit cannot be altered.

Battery Level Indicator - Displays the amount of battery life remaining in the rechargeable lithium ion battery. When the unit is charging, the battery indicator will animate.

Presets

The BodyBeat Sync's default preset memory is loaded with the same preset in all 100 preset locations. This default preset consists of the following parameters:

Tempo: 120 bpm Meter or Time Signature: 4/4 Subdivision: Quarter Note Accent Pattern: None

Above Preset 100 are 14 Practice Patterns. These patterns generally span 2 bars or measures and only allow tempo alteration and storing. Meter is fixed and uneditable. Subdivisions and Accent Patterns are not used.

Creating and Storing Presets - If the Preset / Voice / Bar / Note Display is not currently displaying the Preset label, press the ① Preset button until it does so. To create a preset, you may simply edit the current preset or use the Next and Previous buttons to navigate to a new preset location. Access the various settings within a preset by pressing the corresponding button (⑥ Tempo, ⑦ Meter, ⑧ Subdivision, ⑨ Accent). Then, adjust the value of that setting by rotating the ① Value Wheel.

Tempo - Press the Tempo Button one or more times to toggle between adjusting in whole number increments and 1/10th increments. Tempo range is from 10 - 280 quarter notes per minute. Rotate the value wheel to change.

Meter - Press the Meter Button one or more times to toggle between adjusting the Beats Per Measure parameter (1-12) and the Beat Value parameter (2,4,8,16). Rotate the value wheel to change.

Subdivision - When the Beat Value parameter of the Meter is adjusted, the Subdivision will reset to the first subdivision in the list of available subdivisions for that meter, which is always one whole, unsubdivided beat for that meter. Rotate the value wheel to change. Selectable values are always represented on the display as a correctly notated full beat of the selected meter. See Appendix A - Subdivisions

Accent Pattern - When the Beats Per Measure parameter of the Meter is adjusted, the Accent Pattern will reset to NO Accent Pattern, as the list of available Accent Patterns has changed. Rotate the value wheel to change.

You will notice the con / Status Display when you have changed a setting within a preset. This signifies that the preset has been edited, but not yet stored. Navigating away from this preset will discard the changes you may have made and revert to the unedited preset. The will disappear as the preset is no longer edited and all changes have been lost.

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Once you are satisfied with the changes you have made to a preset, press the ② Store Button. All settings on the LCD display will disappear leaving only a flashing Preset label and a preset location number. At this point you may choose a different location to save your new preset using the ① Previous and ③ Next buttons, or you may continue to store the preset in its existing location. Pressing the ② Store Button again will store the preset into the location you have chosen, the LCD display will return to its normal state and the 🖪 will no longer be displayed.

Note: This makes it very easy to copy presets. Simply locate the preset you would like to copy, press Store, and choose a new location number to copy it to.



Navigate through your stored Presets by using the Next and Previous buttons. Holding either button will gradually increase the rate of selection in the respective direction.

Selecting a Metronome Voice

The BodyBeat Sync has four available voices, or sets of sounds for metronome playback when using the BodyBeat Sync as an audio metronome. Each voice or sound set has three distinct parts, each playing a different role within the rhythmic pattern. The available metronome voices are 1.) Rimshot, 2.) Clave, 3.) Wood Block and 4.) Beep.

To change the metronome voice, press and hold the ② Shift button and then press the ② Pitch/Voice button. The Preset / Voice / Bar / Note Display will change to Voice and display a number from 1 to 4. Use the ① Previous and ③ Next buttons to select a voice. Voices can be changed while the metronome is playing.



Note: Voice selection has no effect on the Vibe Clip when using the BodyBeat Sync as a tactile, pulsating metronome.

Each voice has a high, medium and low voice part. The highest pitched part within the voice represents the downbeat of the bar or measure. The medium pitched part is heard when an accent pattern is active, and will represent the accented beats within the measure. The lowest pitched voice part indicates a normal beat. Subdivisions are also represented using the lowest pitch, but are played at a slightly lower volume than normal beats.

Note: When using the BodyBeat Sync 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 BodyBeat Sync with the Vibe Clip

The BodyBeat Sync can be used as a tactile, pulsating metronome with the help of the Vibe Clip. The built-in speaker will automatically be silenced as well as the Headphone Output. The Vibe Clip allows the rhythm to be transmitted from the BodyBeat Sync to the user invisibly and silently via vibration. Apply the Vibe Clip to one of the following areas:

- Waist area along the belt-line.
- 2. Hip area near the pelvic bone
- Nape of the neck
- Shoe top
- 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.

Tuning Reference Tones

The BodyBeat Sync can be used to generate a tuning reference tone through the on-board speaker or headphones. The Concert A setting can be adjusted from 390-490Hz in 1/10th Hz increments. Chromatic pitches from C1 to C8 can be generated based on the Concert A setting. The BodyBeat Sync is set at A = 440Hz as default.

Press the 2 Pitch/Voice Button once. All metronome settings will disappear and the Note Label will begin flashing. The BodyBeat Sync will emit a reference tone equal to the chromatic pitch and octave number that is displayed in the Preset / Voice / Bar / Note Display area. Use the Value Wheel ① to adjust the chromatic pitch to your preference.



Note: Tuning Reference Tones will NOT be transmitted from a Master when used in a group.

Press the ②Pitch/Voice Button a second time. The Concert A label will flash indicating that you can now adjust the Concert A Hertz setting from 390-490Hz. Use the ⑩ Value Wheel to adjust. The chromatic reference tones will vary in pitch based upon the Concert A setting you have chosen.



Note: Pressing the (5) Start/Stop button at any time while in Tuning Mode will revert back to Metronome Mode and begin playing the current Metronome settings. Also, pressing any button related to the metronome function will revert to Metronome mode.

USB Functions

Other than the hardware control interface, the BodyBeat Sync's metronome can be driven by two additional methods with the help of the USB port located on the right side of the unit.

Receiving MIDI Clock - Connect the BodyBeat Sync to a computer using the provided mini USB cable. After the system recognizes and installs the device automatically, select USB Audio Device as the MIDI output port to transmit a MIDI clock signal. When this signal is present, the tempo setting on your Body-Beat Sync cannot be adjusted because it is under the control of your MIDI capable software.

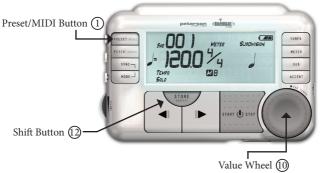


Note: Meter, Subdivision and Accent Pattern can all be adjusted when syncing to a MIDI clock signal. MIDI clock will only affect the BPM or Tempo of your unit and is not capable of setting more complex parameters such as Beats Per Measure, or Beat Value. You will need to manually set these parameters for the BodyBeat sync to count correctly in respect to your MIDI software.

Importing MIDI files as Tempo Maps - The BodyBeat Sync 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 BodyBeat Sync via the BodyBeat Sync USB software. Once imported, only the number of bars, meter changes, and tempo changes are stored in the BodyBeat Sync 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 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/.

Selecting a MIDI Tempo Map - Once you have imported a MIDI Tempo Map into at least one memory slot of the BodyBeat Sync, press the Preset/MIDI Button while holding the D Shift Key. The Micon will appear along with a number if there is at least one MIDI Tempo Map stored on the device. Use the U Value Wheel to select the tempo map you wish to play.



Press the ⑤ Start/Stop Button to play and pause your MIDI Tempo Map. The Preset / Voice / Bar / Note Display will show the current bar of the Tempo Map. The ① Previous and ③ Next Buttons can be used to navigate through the bars of the tempo map. Combine this with the use of the ② Shift Button to "seek" to the last starting point, or to skip back to the beginning of the tempo map.

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

Updating the firmware - Turn off your BodyBeat Sync and connect it to a computer using the provided mini USB cable. Press and hold the **(**Tempo Select Button, then press and hold the **(**Start / Stop - On / Off Button to power the unit on. The BodyBeat Sync will load into Update Mode, and the Updating Icon will appear in the lower right corner of the LCD display.

After the computer recognizes and installs the device automatically, open the BodyBeat Sync USB software. (Select USB Audio Device as both the MIDI In and MIDI Out Devices in Windows XP Only) A "Load" button will become active. Browse to the location in which you saved your downloaded firmware update and select the file.

When the update is finished, power cycle the unit to make use of the new firmware.



Note: To download the latest version of the USB software and obtain further instruction on how to update the firmware, visit http://www.bodybeat.net/.

Creating, Joining and Managing Groups

The BodyBeat Sync has the ability to form synchronized, wireless groups of unlimited members. Any BodyBeat Sync can either function as a "Master" or leader of the group, or as a "Sync" unit or member. Creating or joining a group is simple. Once a group is formed, each member or leader of the group will remember its group and its role within the group even when shut off and on.

By default the BodyBeat Sync is set to "Solo" mode. This means that the wireless circuitry is not active and the unit is not searching for a group or communicating with other units.

Creating a Group - Press the Mode Button to cycle through the 3 basic modes of function. When the Sync Mode Display reads "Master", you are ready to create a group.



Press and hold the (3) Sync Button. You will see the Wireless Icon animate as your unit is creating a new group. When the group is ready for members to join, the O.R. icon will appear signifying Open Registration.



At this point, any BodyBeat Sync within range is able to join your group. Pressing and holding the 3 Sync Button subsequently will switch in and out of Open Registration mode allowing new members to join, or closing your group so no further members can join. Pressing and holding the 4 Sync Mode Button will break the group and return to Solo Mode. Any members who are a part of the group will be "un-syncd".

SHIFT FUNCTION: Pressing and Holding the (12) Shift Button and pressing the (3) Sync Button will display the number of units currently sync'd to the master.

Note: As long as the unit stays in Master Mode, it can be powered off and on and it will retain all group information. At the next power on, it will automatically recreate the same group and any prior members will automatically rejoin if they are on and within range.

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Joining a Group - Press the 4 Mode Button to cycle through the 3 basic modes of function. When the Sync Mode Display reads "Sync", you are ready to join an existing group. Be sure there is a unit set to Master Mode, and in Open Registration.



Press (do not need to hold) the Sync Button. You will see the Wireless Icon animate as your unit is trying to locate a group.



When a group is found, your BodyBeat Sync will join the nearest group or group with the strongest signal. the Wireless icon will stop animating and will display the signal strength of the nearest Master unit. A \dot{D} will be added to the **Sync** icon to read **Sync** \dot{D} . Your BodyBeat Sync is now a member of the group and under control of the group's Master unit.

At this point, all controls on the SYNC'D unit are locked with the exception of the Volume Control and the Power On/Off Button. You may also change the Metronome voice while SYNC'D. When any other control is pressed, the LCD display will flash the locked icon as well as the Sync'd icon to remind you that you are SYNC'D and unable to change settings.



Pressing and holding the 4 Sync Mode Button will break away from the group and return to Solo Mode. Simply returning to Sync Mode and pressing the Sync Button again will "re-sync" to the same Master unless there is a closer Master in Open Registration.

Note: As long as the unit stays in Sync Mode, it can be powered off and on and it will retain all group information. At the next power on, it will automatically try to join the same group if the original Master unit is on and within range. Since the group has already been formed prior, the Master unit does not need to be in Open Registration.

Managing Groups - Since the BodyBeat Sync operates on a network protocol similar to home WiFi, there is no danger of interference between multiple groups in the same proximity. Each group is unique and will operate independently, even in the same room.

In Master Mode, any of the previously discussed Metronome functions will be shared with the group. Syncing to MIDI clock, or playing MIDI Tempo Maps will transmit to any unit that has joined the group.

Appendix A - Subdivisions

The available list of subdivisions varies 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.



Appendix B - Accent Patterns

The available list of accent patterns varies 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 following chart shows the available accent patterns in relation to meter. The Beat Value parameter does not affect accent patterns and is shown in grey.

Example:
$$V_{\Theta}$$
 with ACCENTS 2-2-3 sounds like V_{Θ} $\int_{-1}^{1} \int_{-1}^{1} \int_{-1}^{$

Appendix C - Practice Patterns

There are 14 additional Presets beyond the initial 100 user definable memory locations in the BodyBeat Sync that are named rather than numbered. These additional presets are two bar patterns in which only the tempo setting is editable / storeable. Subdivision and Accent Pattern are not applicable to these patterns, and do not appear on the LCD display.



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In addition to this owner's manual, the official BodyBeat website at www.bodybeat.net contains a complete FAQ section, a library of video tutorials and the official BodyBeat user's forum.