

Mobile Music Therapy Kit User Manual

LAST UPDATED OCTOBER 2018



NOTES



DO NOT OPEN THE TOUCH PAD CASE. Like many electronic devices, the Touch pads in this kit contain a lithium-ion battery, which can rupture, ignite, or explode when exposed to high temperatures. Short-circuiting a lithium-ion battery can also cause it to ignite or explode. Any attempt to open or modify this device's casing or circuitry is dangerous.

Your music Therapy Kit Touch Pad does not contain any user-serviceable parts. If repairs are necessary, the unit must be returned to CanAssist.

Do not expose the items of your mobile Music Therapy Kit to water or extreme temperature.

Turn the volume down to avoid speaker distortion.

Remove front and rear cover while charging to increase the air flow.

If you have questions about your Apple iPad or iPod Touch devices, please refer to www.apple.com for further information.



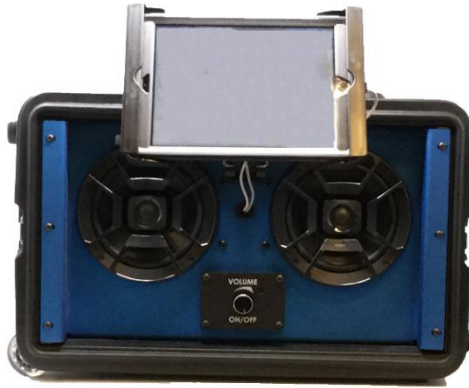
University
of Victoria

MOBILE MUSIC THERAPY KIT USER MANUAL

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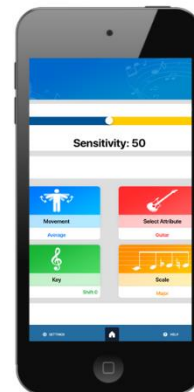
WHAT'S INCLUDED



Mobile Music Therapy Kit with built in speakers, storage, and charging cables



1 x iPad with Waveband App



6 x iPod Touch Devices with Waveband App (**Motion Instruments**)



4 x **Wireless Touch pads**



6 x Adjustable armbands to hold the iPod Touch Devices

ABOUT THE MOBILE MUSIC THERAPY KIT

OVERVIEW

Thank you for using the *Mobile Music Therapy Kit*.

The *Mobile Music Therapy Kit* provides a multitude of ways for people to make music, even without the ability to play standard instruments. Working closely with therapists throughout the development process has ensured that the CanAssist music kit addresses the specific requirements of students and teachers alike.

This guide covers the Waveband app installed on the iPad and iPod devices that come with the kit. It includes information on how to connect instruments for a **Jam Session**, how to adjust the volume, and how to select instrument sounds. For a complete list of terms and definitions consult the glossary of terms. Glossary terms are in **bold** throughout this manual.

FEATURES

- Portable and self contained, amplified speakers and storage for all components
- Includes 6 iPod Touch Devices with Waveband known as **Motion Instruments**, 4 **Touch Pads**, and complete charging system for all devices
- Play scales, melodies, rhythms and percussion through range of motion or by tapping a **Touch Pad**
- Jam along with **Background Tracks** and play music in any **key**

INTRODUCING WAVEBAND

Waveband is designed to be used by anyone who wants to express themselves musically through motion with their iOS device (iPhone, iPod Touch or iPad). Waveband's **Conductor Mode** turns your iPad into a hub used to connect multiple **Motion Instruments** and **Touch Pads** for a multi-instrumental **Jam Session**.

MOTION INSTRUMENT

- Playing a **Motion Instrument** allows you to choose from a wide variety of instrument sounds.
- Adapt your **Motion Instrument** for a unique range of motion by selecting from four distinct motion axis and adjusting the movement **sensitivity** slider.
- Play along with **Background Tracks** and choose a **key**, **Scale**, and **Octave** range for your instrument.
- Add **Polyphony**, **Sustain**, **Echo**, and **Reverb** effects to your instrument.
- Save all of the above adaptations as Custom instruments.

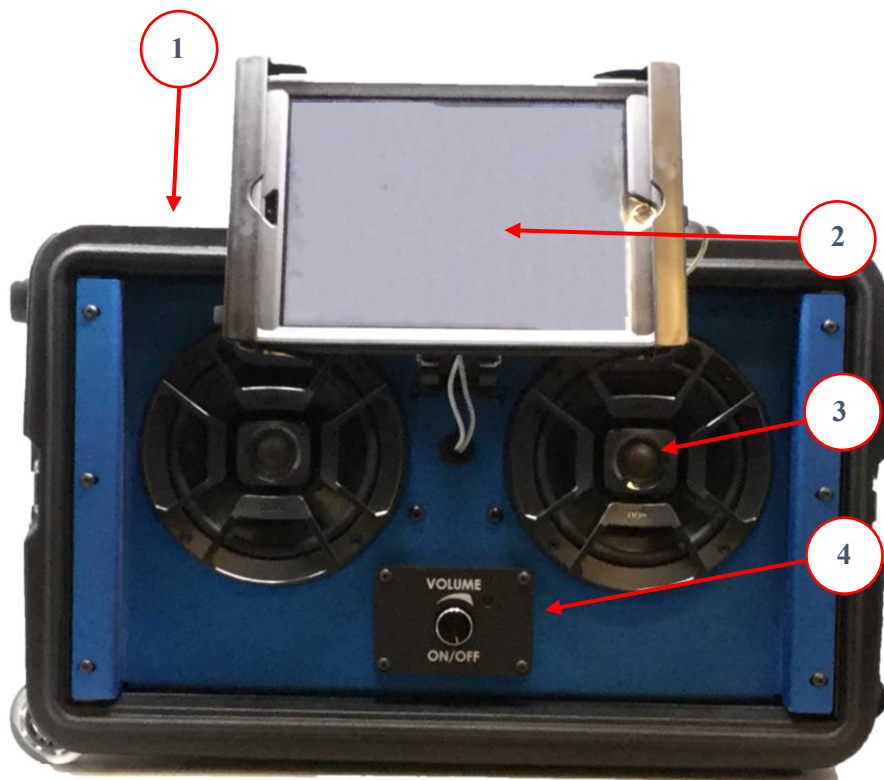
TOUCH PADS

- Playing a **Touch Pad** allows you to trigger a percussive sound or Musical Embellishment by tapping on the surface of the device.

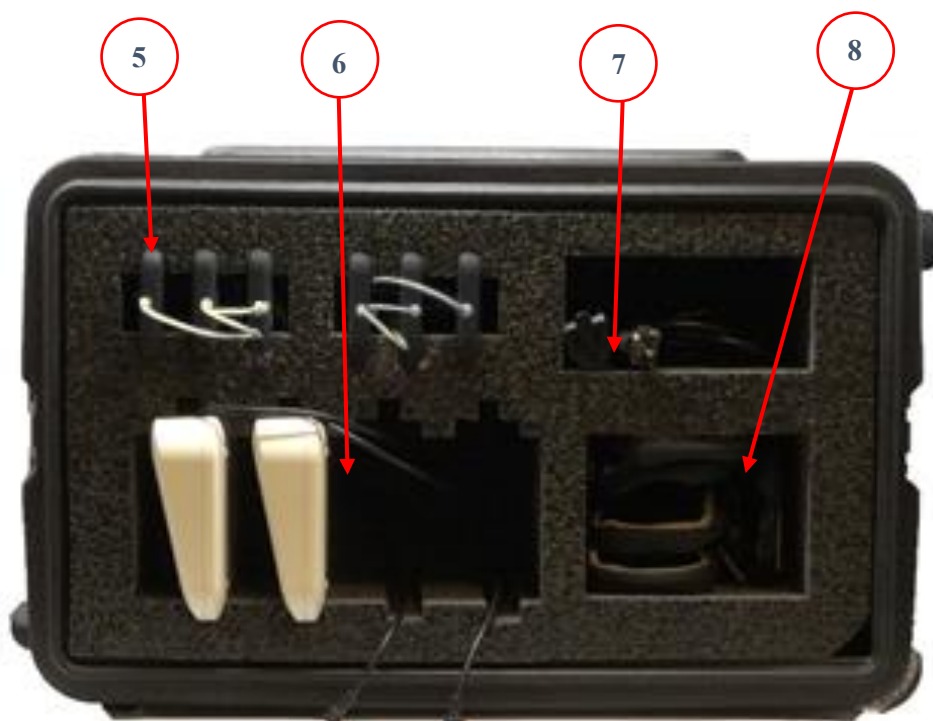
CONDUCTOR MODE

- **Conductor Mode** on the iPad acts as the central Hub to control all of your connected devices.
 - In **Conductor Mode** you can connect **Motion Instruments** and **Touch Pads** via Bluetooth and create a multi-instrumental **Jam Session**.
-

GET TO KNOW YOUR MOBILE MUSIC THERAPY KIT



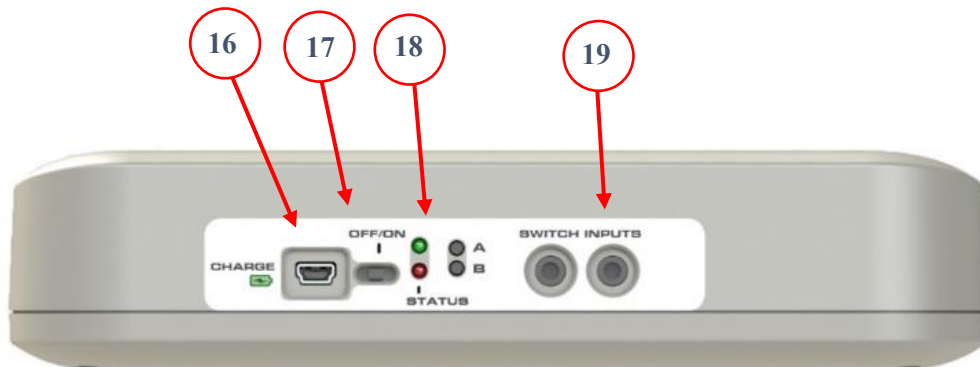
	Kit Front View
1	120 v. AC Connector
2	iPad holder and iPad
3	Speakers
4	Volume knob



	Kit Back View
5	Motion Instrument charging cables
6	Touch Pad charging cables
7	Storage compartment
8	Armbands for Motion Instruments



	Touch Pad Front View
14	Indicator light (flashes when pressed)
15	Touch Pad

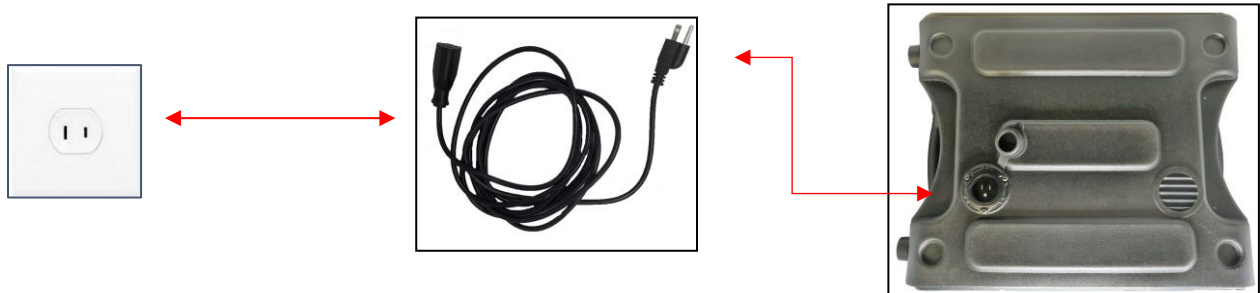


	Touch Pad Back View
16	Charging port
17	Off/on switch
18	Status indicator lights
19	Accessibility inputs

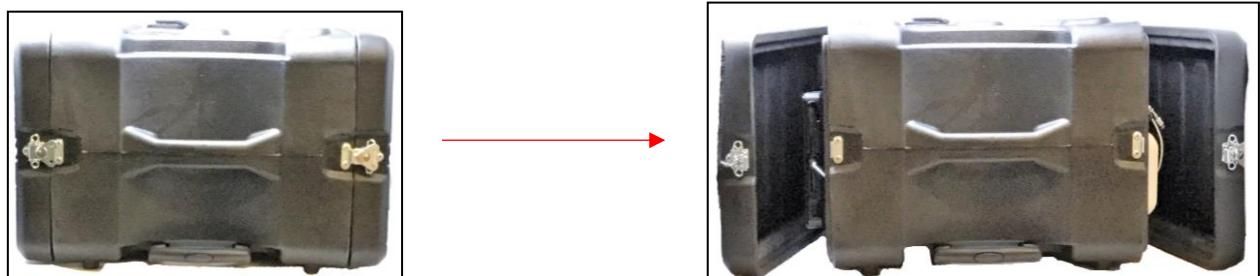
SETTING UP THE MOBILE MUSIC THERAPY KIT

Before you can get started creating music you will need to properly set up the kit. Follow these steps:

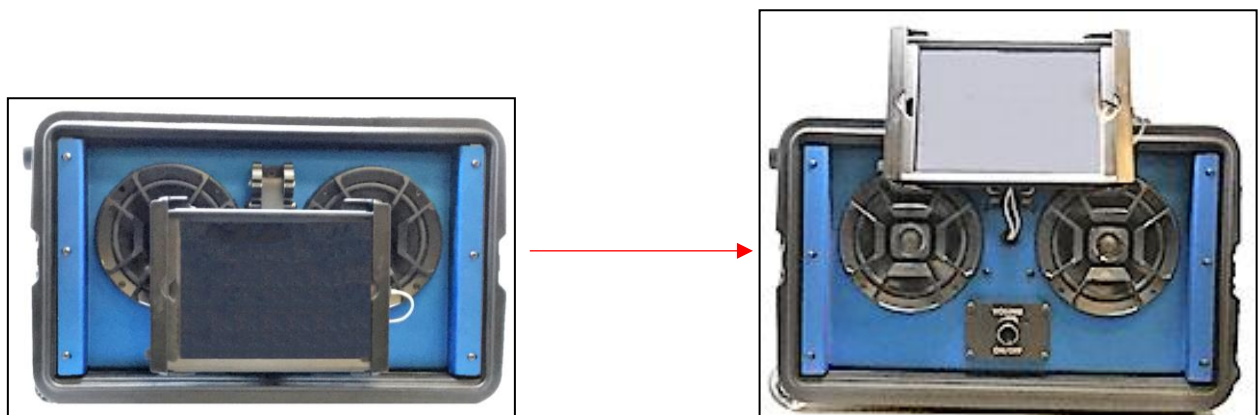
1. To set up the kit, first connect the power cord to the plug on top of the kit. Plug the cord into a power outlet.



2. Remove the protective panels located on the front and back of the kit.



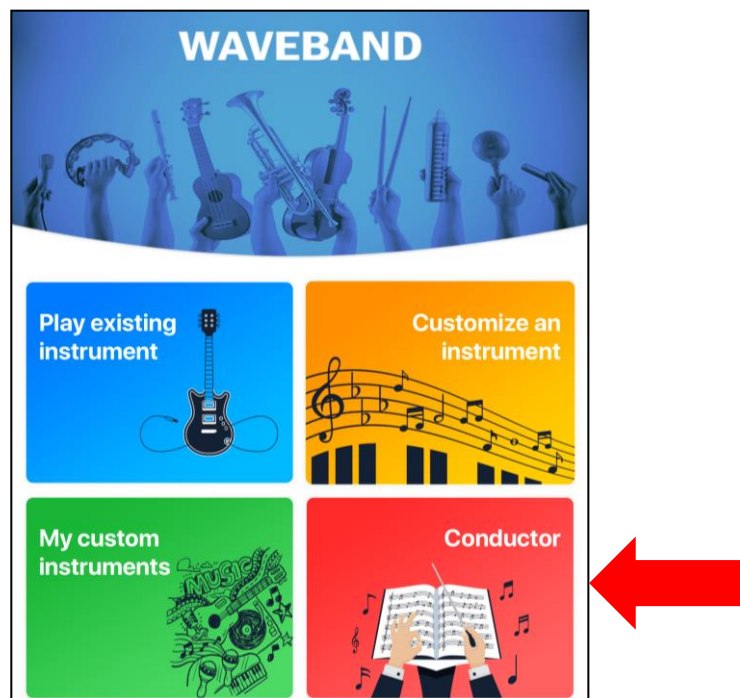
3. Grasp the iPad at the sides and pull upward, adjusting to the desired height and angle.



4. Turn on the speakers by turning the volume knob clockwise, until a click is heard.



5. If it's not already on, turn on the iPad and login.
6. Launch the Waveband app, and select the "conductor" mode.



7. Remove the **Touch Pads** and iPods from their storage compartments at the back of the kit.
8. Turn on the **Motion Instruments** that you will be using and launch the Waveband app.
9. Turn on the **Touch Pads**, using the on-off switch located on the back of the device.

SETTING UP A JAM SESSION

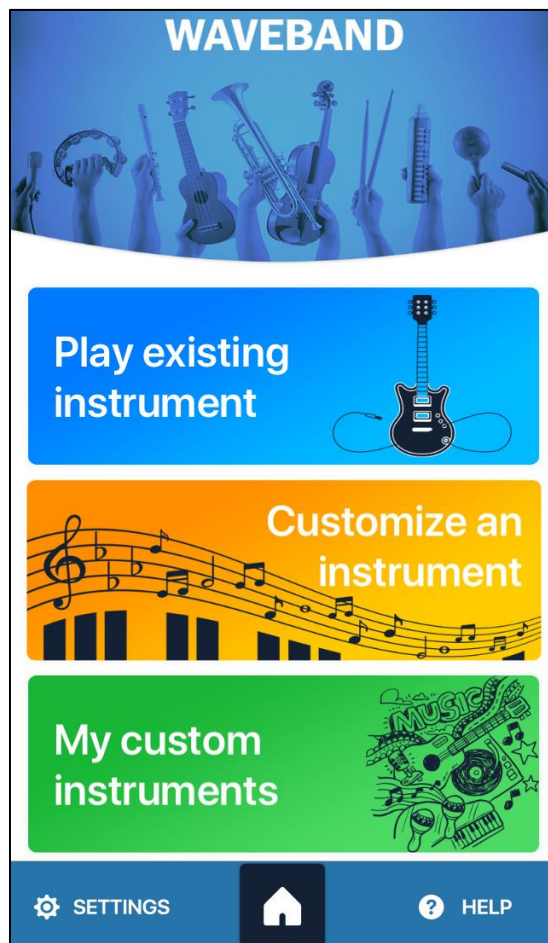
To start jamming and making music, set up is required to link a motion instrument to the conductor iPad.

SETTING UP YOUR MOTION INSTRUMENT

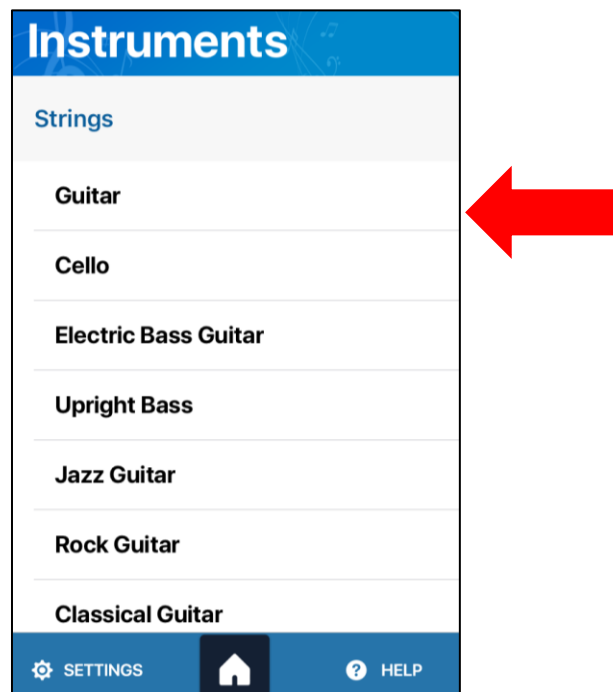
1. Turn on the iPod Touch Devices that you will be using and launch the Waveband app



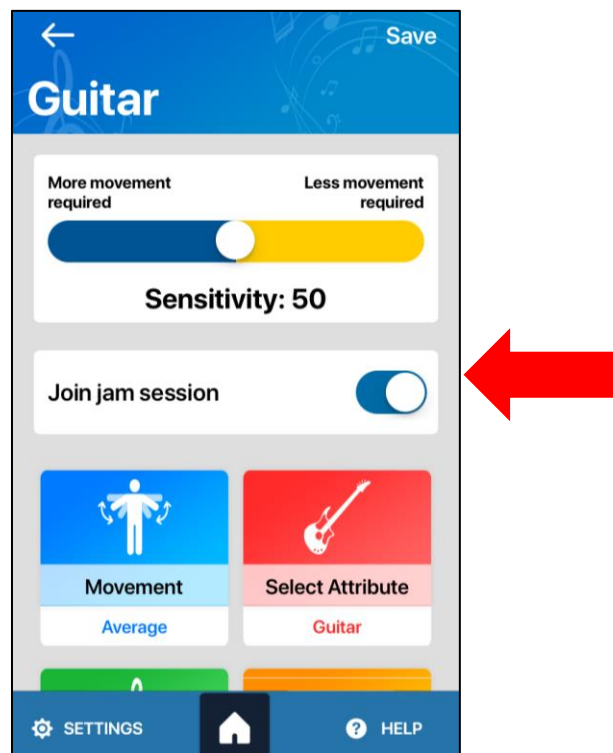
2. Select "Play existing instrument" on each iPod Touch Devices.



3. Select an instrument from the list.



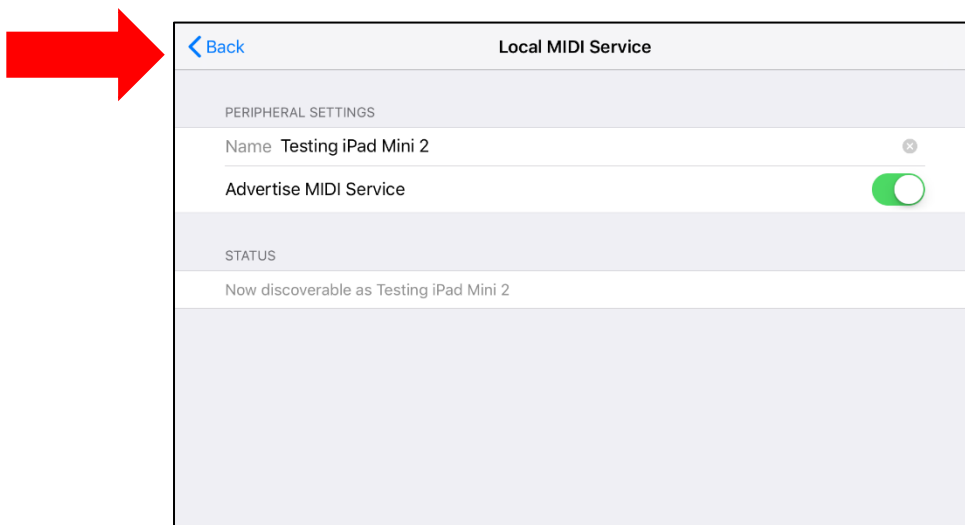
4. Select "Join Jam Session".



5. Select “Advertise MIDI Services”.



6. Press the back button to return to the instrument screen.

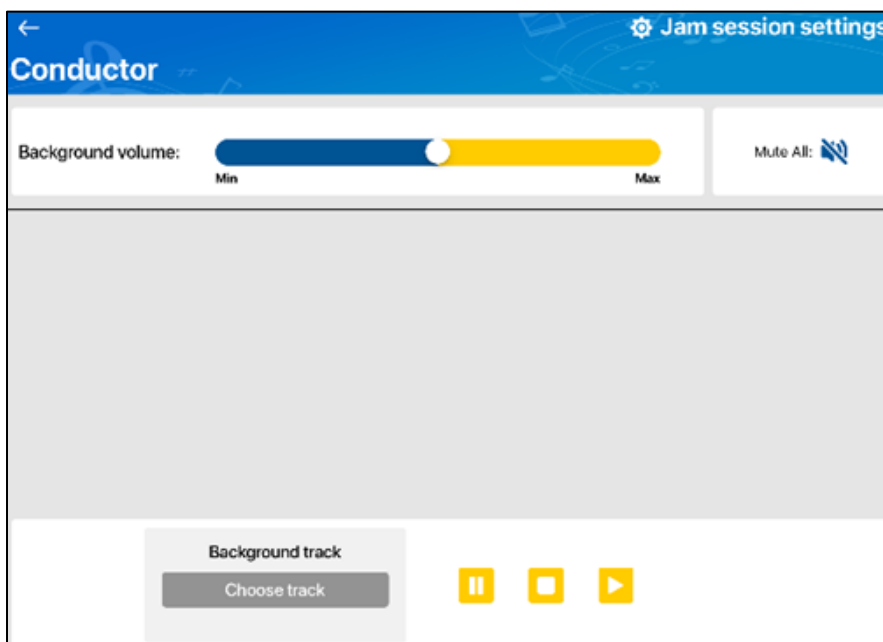


At this point you are ready to move to the iPad and connect your devices using **Conductor Mode**.

CONNECTING YOUR MOTION INSTRUMENT TO THE CONDUCTOR

Conductor Mode on the iPad is the control center for your **Jam Session**. Follow these steps to link your Motion Instrument to the conductor, then adjust the sounds and volume of each instrument.

1. To view the available instruments, select “Jam Session settings” on the iPad.



2. Select the instruments you want to connect one at a time by tapping on the names of available Motion Instruments or **Touch Pads**.

Bluetooth MIDI Devices		Edit
BLUETOOTH MIDI DEVICES		
Touch Pad 1 Input / Output		Offline
Touch Pad 2 Input / Output		Offline
Touch Pad 4 Input / Output		Offline
Touch Pad 3 Input / Output		Offline
iPod touch 1 Input / Output		Not Connected
iPod touch 2 Input / Output		Not Connected
6 devices found		

A large red arrow points from the right towards the 'iPod touch 1' row in the table.

3. The status will change from "Not Connected" to "Connected."

Bluetooth MIDI Devices		Edit
BLUETOOTH MIDI DEVICES		
Touch Pad 1	Offline	
Input / Output		
Touch Pad 2	Offline	
Input / Output		
Touch Pad 4	Offline	
Input / Output		
Touch Pad 3	Offline	
Input / Output		
iPod touch 1	Connected	
Input / Output		
iPod touch 2	Not Connected	
Input / Output		
6 devices found		

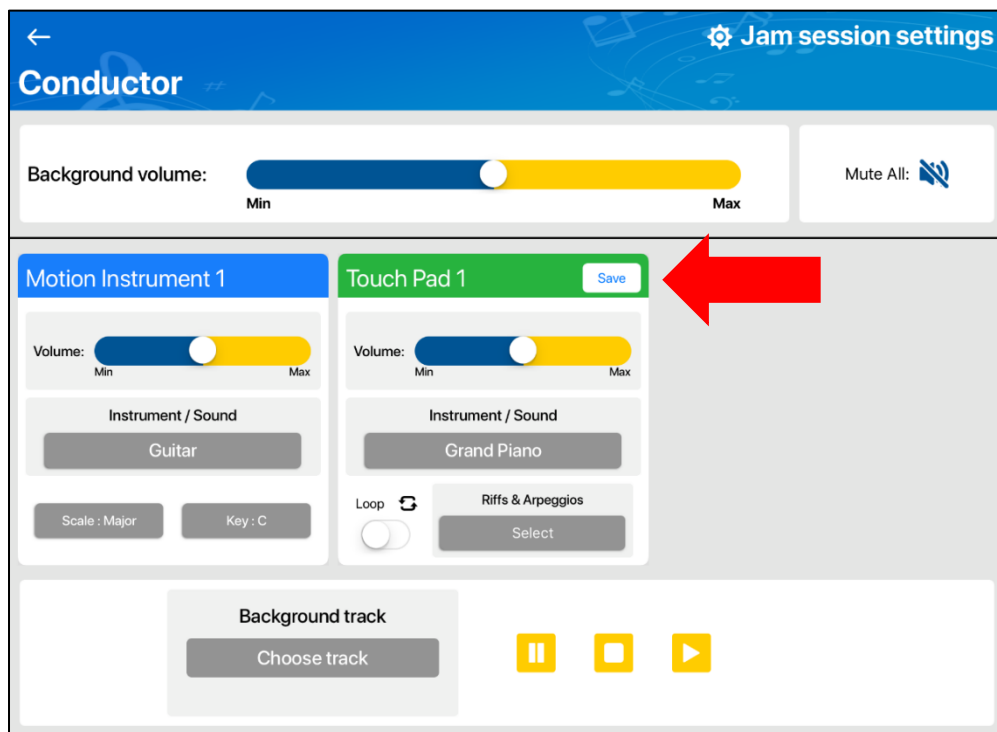


4. Press the back button to return to the Conductor screen.

Bluetooth MIDI Devices		Edit
BLUETOOTH MIDI DEVICES		
Touch Pad 1	Offline	
Input / Output		
Touch Pad 2	Offline	
Input / Output		
Touch Pad 4	Offline	
Input / Output		
Touch Pad 3	Offline	
Input / Output		
iPod touch 1	Connected	
Input / Output		
iPod touch 2	Not Connected	
Input / Output		
6 devices found		



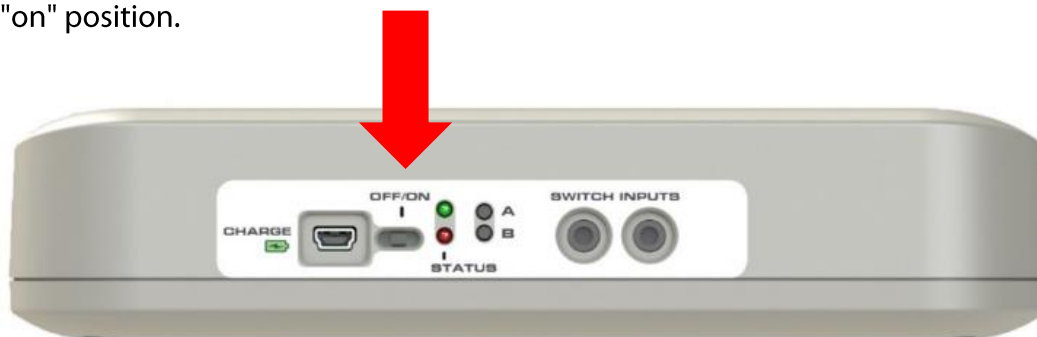
5. Move the Motion Instruments and they will pop-up on the conductor screen.



SETTING UP A MUSIC TOUCH PAD

A Touch Pad can be tapped to trigger a **Musical Embellishment**. "Follow these steps to link your Touch Pads to the conductor and adjust the **Sounds, Riffs, Arpeggios, and Volume** for each **Touch Pad**."

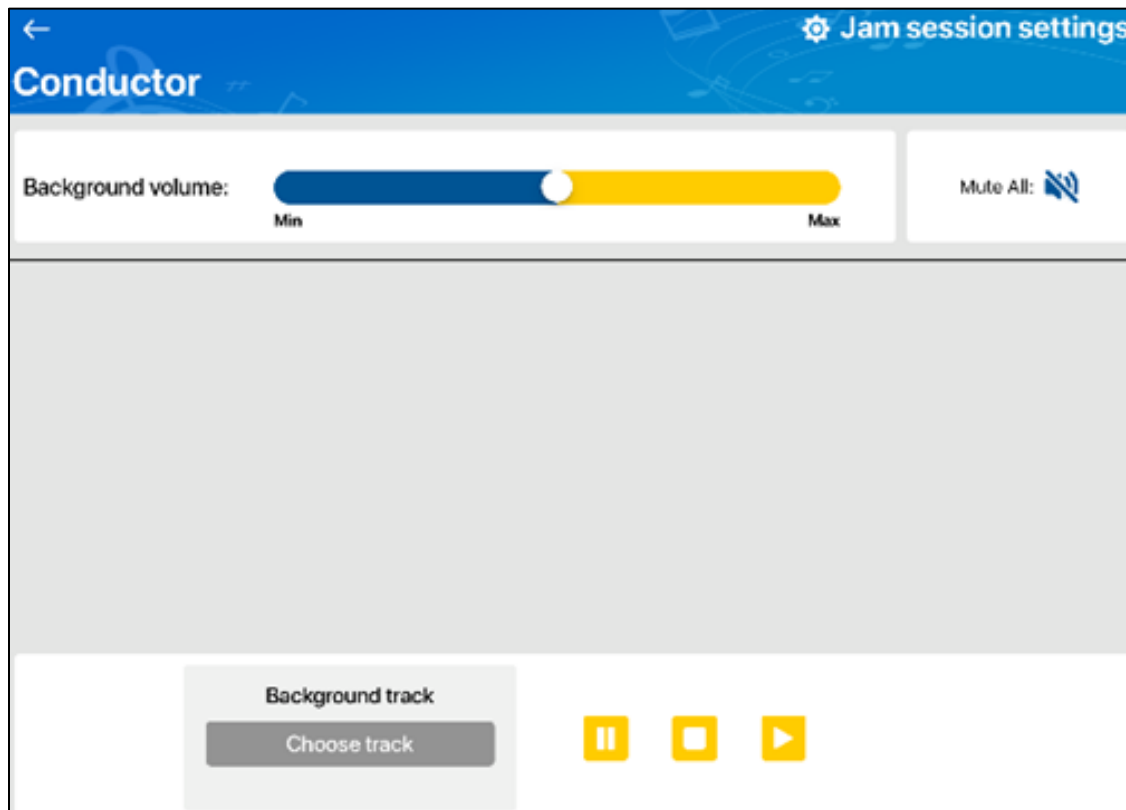
1. Turn the Touch Pad on by moving the power switch at the back of the device to the "on" position.



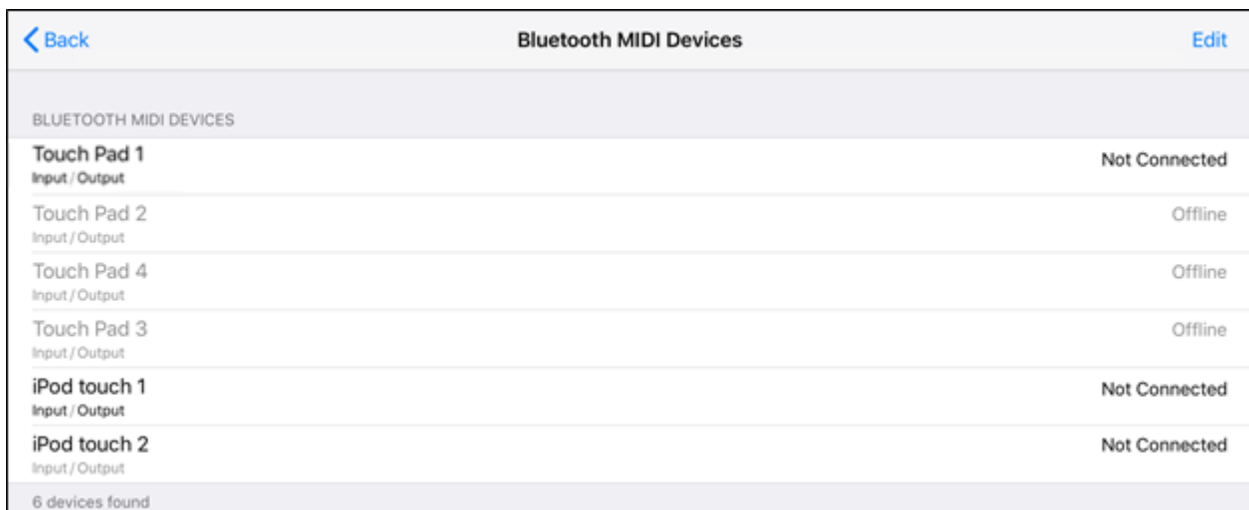
CONNECTING THE TOUCH PAD TO THE CONDUCTOR

Touch Pads are another type of instrument that can be used during a **Jam Session**. Follow these steps to link your **Touch Pad** to the conductor, then adjust the sounds and volume of each instrument.

1. To view the available instruments, select “Jam Session settings” on the iPad.



2. Select the **Touch pads** you want to connect by tapping on the names of available iPods or **Touch Pads**.



3. The status will change from "Not Connected" to "Connected."

Back

Bluetooth MIDI Devices

Edit

BLUETOOTH MIDI DEVICES

Touch Pad 1

Input / Output

Connected

Touch Pad 2

Input / Output

Offline

Touch Pad 4

Input / Output

Offline

Touch Pad 3

Input / Output

Offline

iPod touch 1

Input / Output

Not Connected

iPod touch 2

Input / Output

Not Connected

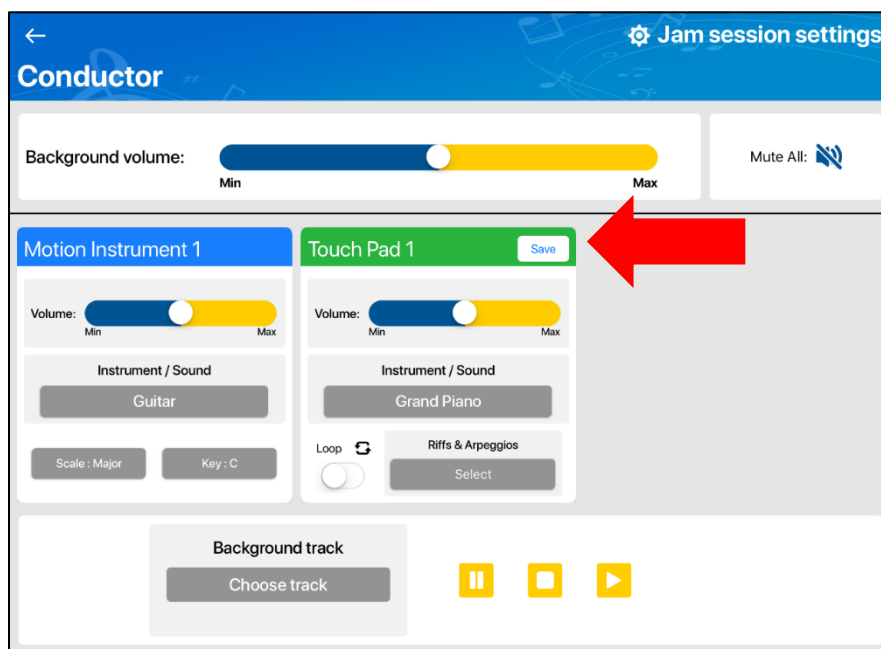
6 devices found

4. Press the back button to return to the Conductor screen on the iPad.

Back

5. Tap the **Touch Pad** on its top surface to activate it.

6. The activated **Touch Pad** will be displayed on the conductor screen.

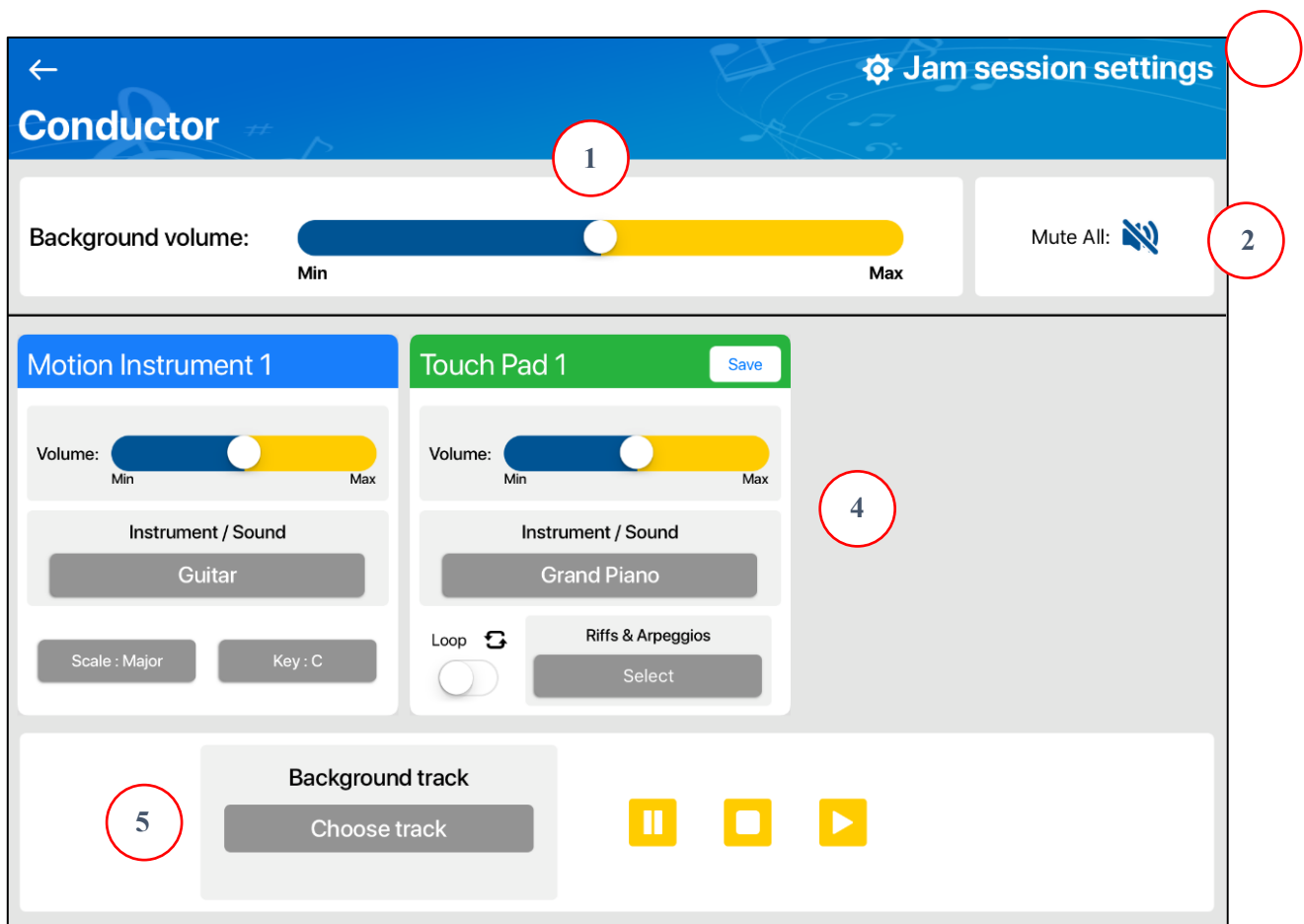


With the Motion Instruments and **Touch Pads** connected in conductor mode, we can now take a look at the controls in conductor mode.

CONDUCTOR MODE SETTINGS

This section describes the settings available from the conductor screen.

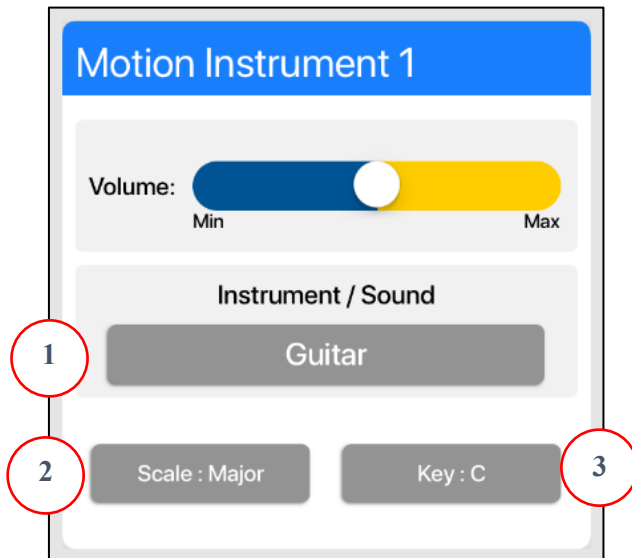
CONDUCTOR SCREEN LAYOUT



	CONDUCTOR SCREEN
1	Background Track Volume
2	Mute All Button
3	Motion Instrument Block
4	Touch Pad Block
5	Background Track Playback
6	Jam Session Settings

MOTION INSTRUMENT BLOCK

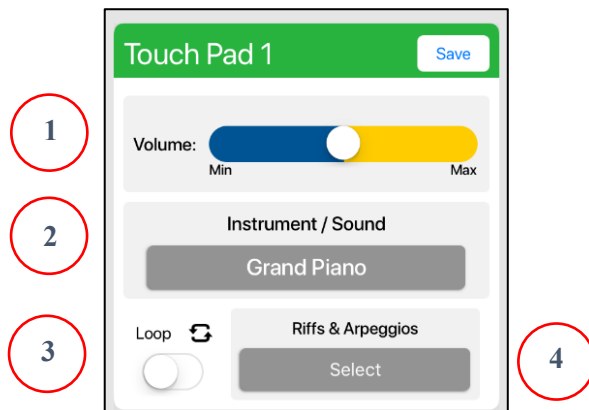
From the Motion Instrument Block select an instrument/sound for your device. Select the **Scale** and **Key** you would like to play in. Adjust the volume of the instrument using the volume slider.




	MOTION INSTRUMENT BLOCK
1	Instrument/sound
2	Scale
3	Key

TOUCH PAD BLOCK

From the Touch Pad Block adjust the volume of the instrument, select an instrument/sound, add a Riff and Arpeggio, toggle the loop switch.



	TOUCH PAD BLOCK
1	Volume slider
2	Instrument/sound
3	Loop Switch 
4	Riffs & Arpeggios

BACKGROUND TRACKS

Choose from pre-loaded Background Tracks or add your own from your iTunes library.

Background track

1

2

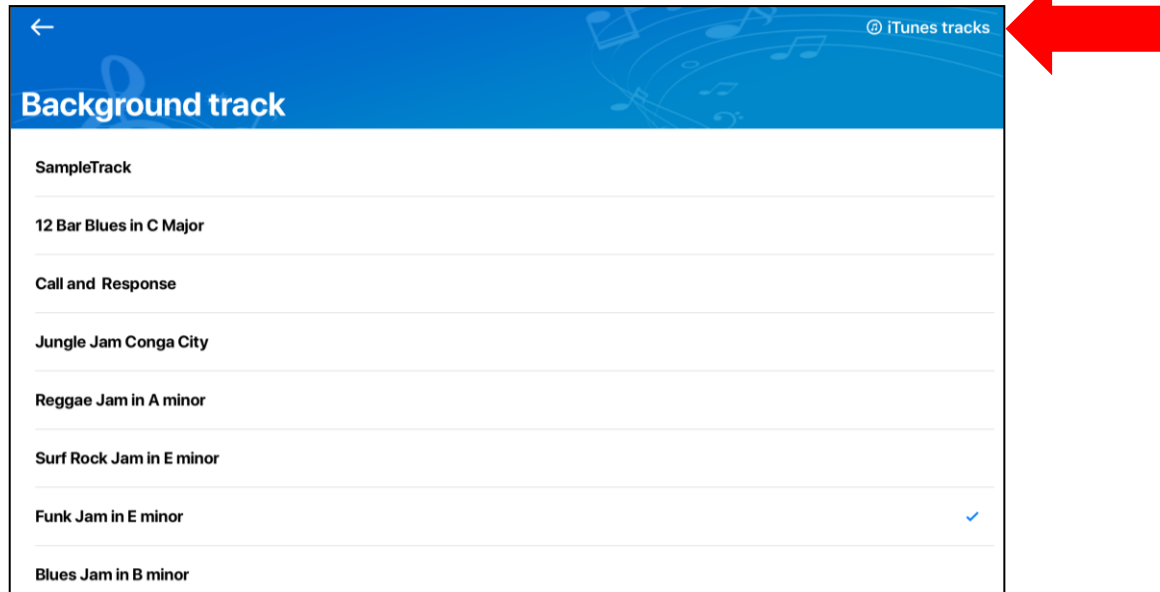
3

4

Choose track

TOUCH PAD BLOCK	
1	Choosing a track
2	Pause
3	Stop
4	Start

1. Press 'Choose Track' to select from a list of **Background Tracks**.

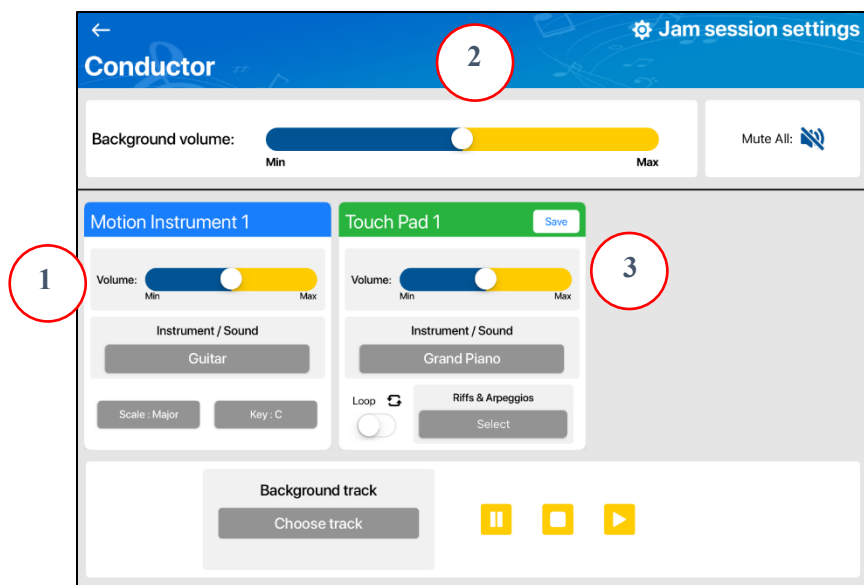


2. Press the 'play' button to Start or resume playback of a track.
3. Press the 'Pause' button to pause the track at a position.
4. Press Play to resume playback from the current position.
5. Press 'Stop' to return the track to the beginning.

VOLUME SETTINGS

Volume settings allow you to control the volume of **Background Tracks**, individual instruments, and the overall volume of the Mobile Music Therapy Kit.

1. Move the volume slider to the right to increase the volume of the background track or move it to the left to decrease the volume.
2. Each instrument connected to the **Jam Session** has an individual volume slider than can be controlled from the iPad.



	TOUCH PAD BLOCK
1	Background volume slider
2	Motion instrument volume slider
3	Touch pad volume slider

3. The volume switch for the iPad is located on the top left of the device. It is recommended that this volume be left at the Maximum Level.
4. Use the volume knob on the kit as a master volume to turn the overall sound up and down.




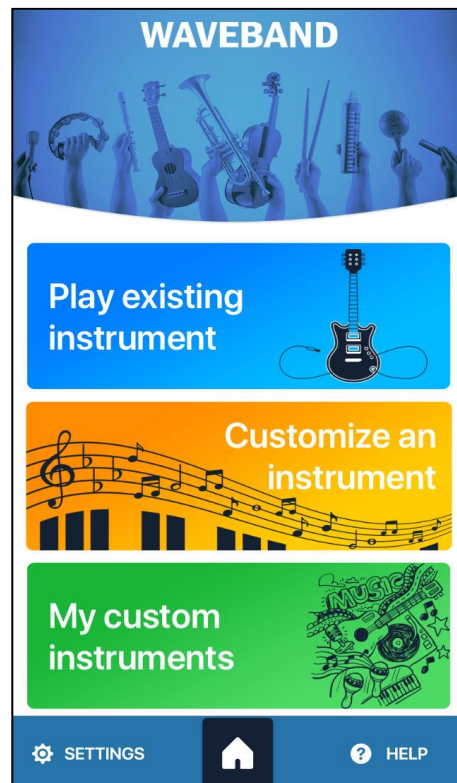
WAVEBAND STANDALONE FEATURES

These features are available on the iPod Touch as a stand alone instrument and not part of a jam session in conductor mode.

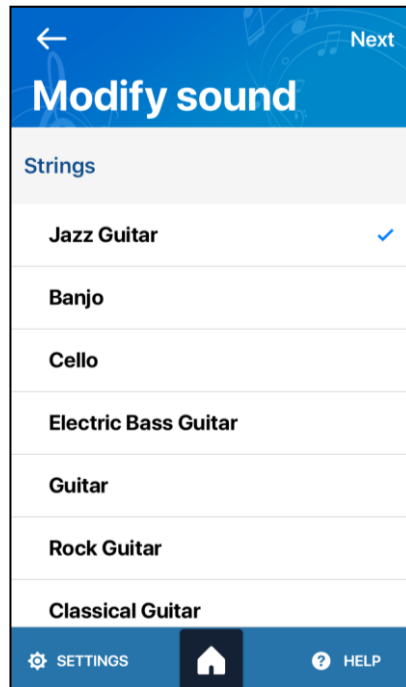
CUSTOMIZE AN INSTRUMENT

To create a Motion Instrument on the iPod with custom settings that is stored in 'My custom instruments' follow the steps below:

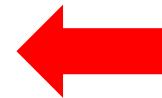
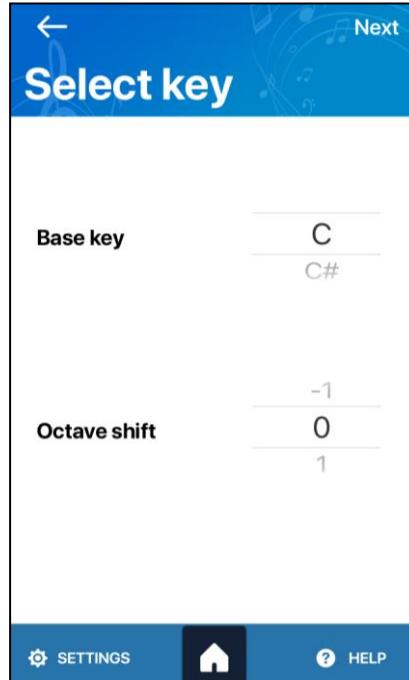
1. Launch the Waveband App. 
- 2.
3. Tap 'Customize an instrument' from the Home Screen.



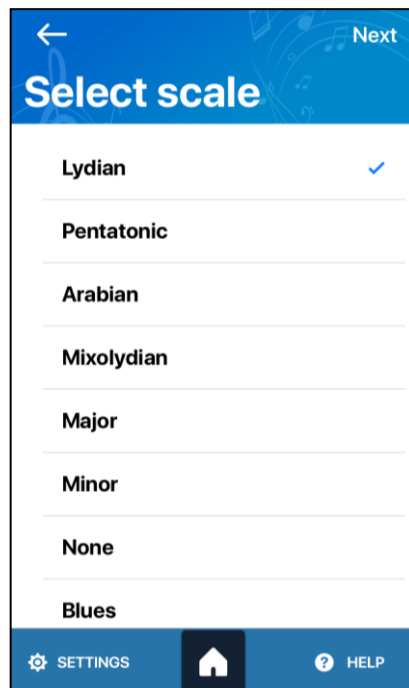
4. Select an instrument from the 'Modify Sound' list and tap 'Next' on the top left of the screen.



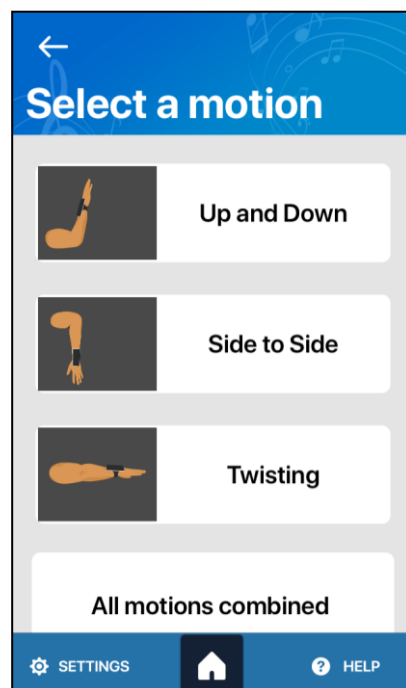
5. Select a 'Base key' and 'Octave shift' and tap 'Next'.



6. Select a Scale for your instrument and tap 'Next'.

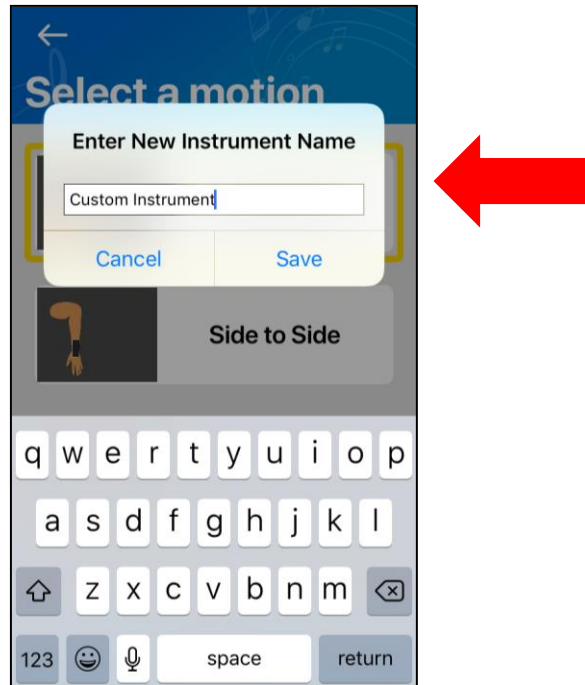


7. Select a motion for your instrument.

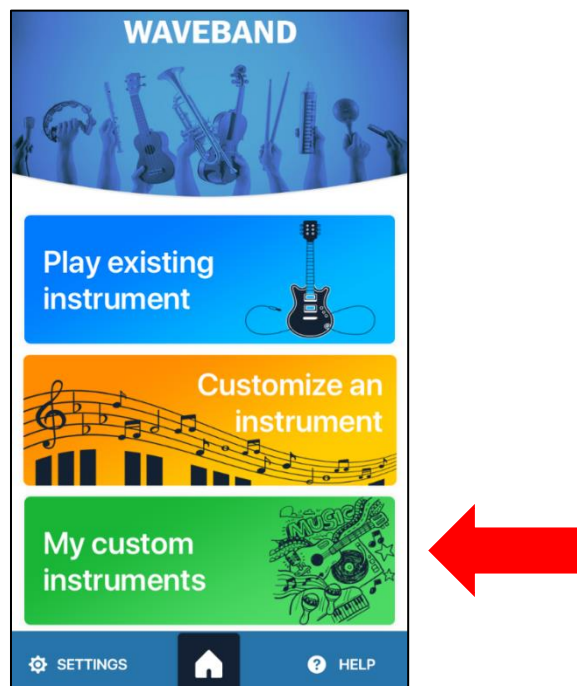


8. You will then be prompted to "Enter New Instrument Name" on the keyboard.

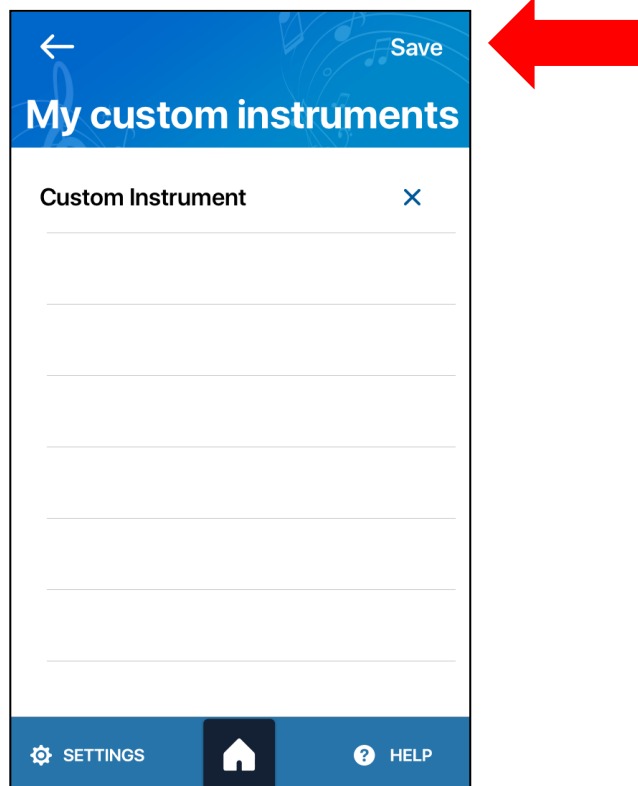
prompted to "Enter New



9. From the **Home Screen**, the new instrument that has been created can be found by tapping on the “My custom instruments’ Block.



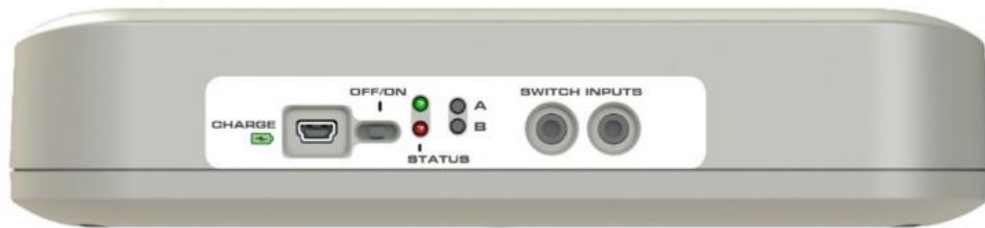
10. Once a name has been entered tap ‘Save’. This will return you to the **Home Screen**.



CHARGING YOUR DEVICES

The Mobile Music Therapy Kit is the charging station for all of the Motion Instruments and Touch Pads contained in the kit.

1. Plug the kit into the wall using the cord provided in order to charge the devices.
2. To charge the iPods, connect a white charging cable to the bottom of an iPod.
3. To charge the **Touch Pads**, connect a black charging cable to the back of a **Touch Pad**.



4. The red LED is solid when the Touch Pad is plugged in and charging.
5. The red LED blinks when the battery is low and needs to be charged

Notes: It is recommended that the back remains off during charging to allow for air flow.

SONGBOOK

The songbook is a combination of suggested **Background Tracks**, Instruments, and volume slider settings that will get your band all set up and jamming.

	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	12 Bar Blues in C Major						
Instrument/Sound		Guitar	Strings	Piano	Piano	Instrument/Sound/Drums or Percussion	Instrument/Sound/Drums or Percussion
Scale		Pentatonic	Pentatonic				
Key		C	C				
Octave Shift		0	0				
Riffs & Arpeggios				C Major Arpeggio 1	C Major Arpeggio 2		
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Call and Response						
Instrument/Sound		50%	75%	75%	75%	50%	25%
Scale		Cello	Harp	Timpani Ht	Timpani Lo	Flute	Grand Piano
Key		Major	Major				
Octave Shift		0	0				
Riffs & Arpeggios						Call and Response 1	Call and Response 2
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Jungle Jam Conga City						
Instrument/Sound		50%	50%	100%	25%	25%	25%
Scale		Clarinet	Trumpet	Conga Loop 1	Ride Cymbal	Marimba	Marimba
Key		Major	Major				
Octave Shift		C	C				
Riffs & Arpeggios		0	0			C Major Arpeggio 1	C Major Arpeggio
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Reggae Jam in A minor						
Instrument/Sound		30%	50%	100%	80%	40%	50%
Scale		Grand Piano	Electric Bass Guitar	Conga Ht	Conga Lo	Crash Cymbal	Synth Bass
Key		Blues	Blues				
Octave Shift		A	A				
Riffs & Arpeggios		0	-1				C Major Arpeggio 1
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Surf rock Jam in E minor						
Instrument/Sound		25%	75%	80%	80%	80%	75%
Scale		Rock Guitar	Rhodes	Tom Ht	Tom Mid	Tom Lo	Crash Cymbal
Key		Blues	Blues				
Octave Shift		E	E				
Riffs & Arpeggios		1	0				

	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Funk Jam in E minor	25%	75%	25%	25%	25%	100%
Instrument/Sound		Rock Guitar	Rhodes	Clavinet	Clavinet		Conga Loop 1
Scale		Blues	Blues				
Key		E	E				
Octave Shift		1	0				
Riffs & Arpeggios				Funk Jam 1	Funk Jam 2	Funk Jam 3	
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Blues Jam in B minor						
Instrument/Sound	40%	50%	75%	80%	100%	60%	80%
Scale		Accordion	Banjo	Blues Riff 1	Blues Riff 2	Guitar	Grand Piano
Key		Blues	Blues				
Octave Shift		B	B				
Riffs & Arpeggios		-1	0			Blues Jam 3	Blues Jam 1
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Happy Birthday			50%	50%	50%	50%
Instrument/Sound				Grand Piano	Grand Piano	Grand Piano	Grand Piano
Scale							
Key							
Octave Shift							
Riffs & Arpeggios				Happy Birthday Phrase 1	Happy Birthday Phrase 2	Happy Birthday Phrase 3	Happy Birthday Phrase 4
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	ABC's Song			50%			
Instrument/Sound				Grand Piano			
Scale							
Key							
Octave Shift							
Riffs & Arpeggios				ABC's Song			
	Song	Motion Instrument 1	Motion Instrument 2	Touch Pad 1	Touch Pad 2	Touch Pad 3	Touch Pad 4
Volume Slider	Row, Row, Row your Boat Song			50%			
Instrument/Sound				Grand Piano			
Scale							
Key							
Octave Shift							
Riffs & Arpeggios				Row, Row, Row your Boat Song			

INSTRUMENT LIST

The instrument list provides a list of the sounds available in the Waveband app. It also provides suggestions for best use of each sound.

Instrument	Best Use
Strings	
Guitar	Motion Instrument
Cello	Motion Instrument
Electric Bass Guitar	Motion Instrument
Upright Bass	Motion Instrument
Jazz Guitar	Motion Instrument
Rock Guitar	Motion Instrument
Classical Guitar	Motion Instrument
Banjo	Motion Instrument
Harp	Motion Instrument
Strings	Motion Instrument
Keyboard	
Accordion	Motion Instrument
Grand Piano	Motion Instrument
Synth Bass	Motion Instrument
Organ	Motion Instrument
Rhodes	Motion Instrument
Keys	Motion Instrument
Clavinet	Motion Instrument
Brass	
Trombone	Motion Instrument
Trumpet	Motion Instrument
English Horn	Motion Instrument
Brass Ensemble	Motion Instrument
Woodwind	
Bassoon	Motion Instrument
Clarinet	Motion Instrument
Flute	Motion Instrument
Recorder	Motion Instrument
Percussion	
Wind Chimes	Touch pad Instrument

Claves	Touch pad Instrument/ Motion Instrument
Shakers	Touch pad Instrument/ Motion Instrument
Turtle Drum	Touch pad Instrument/ Motion Instrument
Tap Dance	Touch pad Instrument/ Motion Instrument
Percussion	Motion Instrument
Conga Hi	Touch pad Instrument/ Motion Instrument
Conga Mid	Touch Pad Instrument/ Motion Instrument
Conga Lo	Touch Pad Instrument/ Motion Instrument
Marimba	Touch Pad Instrument/ Motion Instrument
Timpani Hi	Touch Pad Instrument/ Motion Instrument
Timpani Lo	Touch pad Instrument/ Motion Instrument
Drums	
Hand Drums	Motion Instrument
Kick Drum	Touch pad Instrument/ Motion Instrument
Hi Hat	Touch pad Instrument/ Motion Instrument
Ride Cymbal	Touch pad Instrument/ Motion Instrument
Rim Shot	Touch pad Instrument/ Motion Instrument
Snare Drum	Touch pad Instrument/ Motion Instrument
Tom Low	Touch pad Instrument/ Motion Instrument
Tom Hi	Touch pad Instrument/ Motion Instrument
Tom Mid	Touch pad Instrument/ Motion Instrument
Crash Cymbal	Touch pad Instrument/ Motion Instrument
Other/Sounds	

Choir	Motion Instrument
Drum Tracks	
Drum Loop 1	Touch pad Instrument
Conga Loop 1	Touch pad Instrument
Guitar Riffs	
Blues Riff 1	Touch pad Instrument
Blues Riff 2	Touch pad Instrument
Blues Riff 3	Touch pad Instrument

GLOSSARY OF TERMS

Background Track: a musical track to play along with while using Waveband.

Conductor Mode: a feature of the iPad version used to connect multiple instruments for a Jam Session.

Echo: causes an instrument note that is played to repeat. The greater the echo % the more time the note will repeat.

Effect: refers to changing instrument characteristics such as polyphony, sustain, echo, and reverb.

Home Screen: The main screen from which to play an instrument, customize an instrument, or select conductor mode on an iPad.

Jam Session: connecting several instruments to Waveband in conductor mode and performing with a group or as a multi-instrumentalist.

Key: a musical characteristic that describes the tonic or root note of a particular scale

Loop: a musical embellishment that repeats continuously.

MIDI: an acronym for Musical Instrument Digital Interface.

Motions:

- Up and down
- Side to side
- Twist
- All combined/average

Motion Instrument: a device that attaches to a musician and plays a series musical notes based on body movement.

Musical Embellishment: A short melody triggered by a Music Touch Pad. Found in the Riffs and Arpeggios list.

Octave: a grouping of 12 notes that can be shifted up or down in pitch

Polyphony: allows for many notes to overlap and be played at the same time

Reverb Effect: increases the spatial feeling of an instrument

Riffs & Arpeggios: Musical embellishments triggered by a Touch Pad.

Scale: a specific interval pattern of notes in an octave that begins on a particular root note or key

Sensitivity: the greater the sensitivity the smaller the range of motion required to play a series of notes

Sustain: an increase in sustain will cause the duration of a single note to last longer

Touch pad: a device that triggers a musical embellishment or percussive sound by tapping on the colored square of the touchpad with a part of the body

CONTACT US

Please visit canassist.ca/cdc for the latest *Mobile Music Therapy Kit* instruction manuals, for how-to videos, to submit a help request and to provide feedback on this app and kit.

ABOUT CANASSIST

CanAssist at the University of Victoria is dedicated to helping people with disabilities improve their quality of life, with a focus on promoting independence and inclusion.



**University
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Our talented team develops innovative technologies and programs where there are gaps in existing services. We work with the exceptional students and faculty at UVic, along with partners in the wider community.