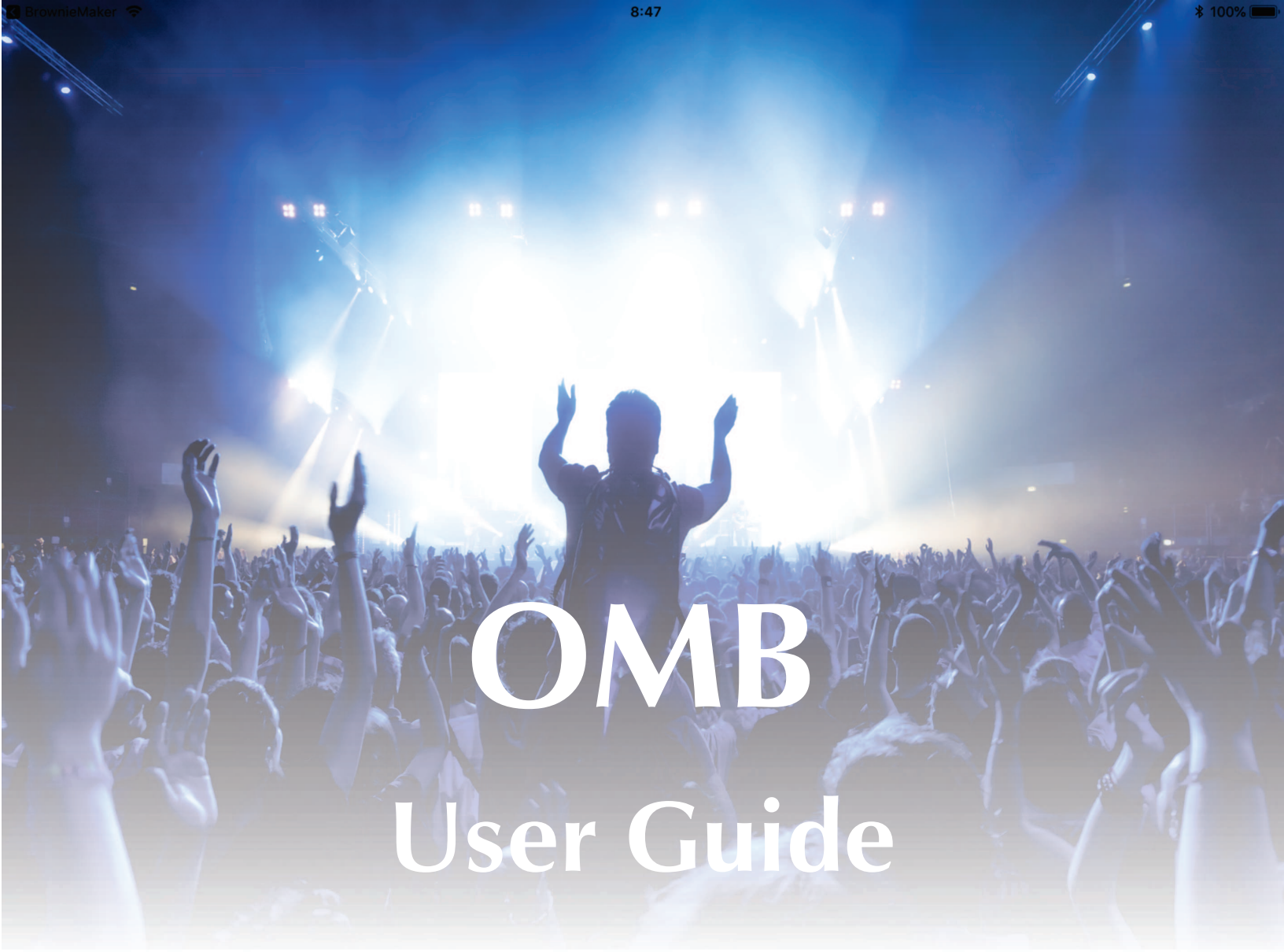


OMB

User Guide

OMB Guitars Ltd.
info@ombguitars.com
Version 1

OMB Introduction

OMB is a versatile music arranger app that puts an entire virtual band at your fingertips. Use it with any android- or iOS-compatible MIDI device or with a guitar equipped with OMB technology. Using the built in Styles, you can quickly and easily play along with a backing band in various musical styles.

TheOMB App features:

- Five parts per style: Drums, Bass, and instruments 1 - 3
- Each style comes with Intro, Outro and four Variations with Fills
- Solo section with over a hundred high-quality sounds
- Record function to capture your performance into an MP3 file
- Additional styles and sounds can be downloaded from the Download menu

Of course you want to start playing right away, but first take a moment to look over the following points.

- The OMB system uses Bluetooth technology for your guitar and app to communicate.See *EMC and Certificate of Conformity* on page 4 for all of the specifics.
- The OMB system battery should provide you hundreds of hours of cable-free playing (between charging). When the battery can no longer hold a charge, contact OMB Service for instructions.
- All things come to an end, and, at some point, the curtain will come down on the electronics in your OMB-powered guitar. See *Responsible Recycling* on page 4 when that time comes.

Install the OMB App

Download the OMB App according to your device.

We recommend using the OMB App on your tablet for the best user experience.

Site	URL	QR Code
App Store	https://itunes.apple.com/us/app/omb/id1440465420?ls=1&mt=8	
Google Play	https://play.google.com/store/apps/details?id=com.omb.omb	

You may find that a feature works differently than you expect or is not available on your device's platform. OMB is committed to continuous improvement, and every effort is made to put things write in the next revision.

How to Use this Guide

We know: no one likes to read a user guide. So go ahead—jump in and start. We want you to start enjoying your OMB experience right away.

However, to enjoy yourself to the full, you might want to look through this guide to see if you missed anything, or if something we think is intuitively obvious is anything but. (Let us know; we'll fix it.)

At the beginning of a section a short introduction discusses what is to be done, and it often includes an identification of parts. A list of the parts is shown with capital letters in triangles (A, B, C) keyed to the illustration below.

We hope that you'll be able to understand what to do just by looking at the illustrations. If some step isn't clear, look at the written instructions, which are keyed to annotations in the illustration.

At last count, OMB enhances eight different types of guitars—and more coming. Thumbnail drawings indicate the location of parts or features where they might differ, on your guitar, from other models.

Safety

There's a reason why we've put in this chapter, and it's not to warn you about getting blisters on your fingers from playing too long. (But you might want to lay in a supply of adhesive bandages just in case.)

The information here is important to you and to your environment. So take a moment and look it over.

The standard operating temperature for your OMB device is 86 °F (30 °C)

Battery Information

OMB products are powered by rechargeable LiPo batteries.

The batteries are not user-replaceable. If the operating time of your OMB guitar becomes sluggish, or if you see shorter intervals between recharging, contact OMB Service for information about how to have the battery replaced.

Attempting to change the battery yourself will violate the warranty and may damage the OMB device. If you replace the battery with the incorrect type you run the risk of explosion.

Responsible Recycling

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.

In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only.

To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

EMC and Certificate of Conformity

Class B Warnings

The FCC Wants You to Know

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 to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician.

RF Exposure Warnings

Mobile Device RF Exposure Statement

Mobile Device definition:

a Mobile: (§2.1091) (b) — A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least eight inches is normally maintained between the transmitter’s radiating structure(s) and the body of the user or nearby persons. Per §2.1091d(d)(4) In some cases (for example, modular or desktop transmitters), the potential conditions of use of a device may not allow easy classification of that device as either Mobile or Portable. In these cases, applicants are responsible for determining minimum distances for compliance for the intended use and installation of the device based on evaluation of either specific absorption rate (SAR), field strength, or power density, whichever is most appropriate

RF Exposure

This device is only authorized for use in a mobile application. At least 8" of separation distance between the OMB Upgrade Kit and the user's body must be maintained at all times.

The OMB Upgrade Kit

The OMB Upgrade Kit is for those guitarists who want to use OMB but love their own guitars too much to play any other. The OMB Upgrade Kit works on most electric and acoustic guitars with steel strings.

Installing the OMB Upgrade Kit is not very complicated, but it still has to be done correctly, and in the right order. But we've tried to make everything clear and simple.

The OMB Upgrade Kit, and all OMB-powered guitars, can be switched to right-handed fingering by single setting in the OMB App, so no special hardware adjustments are required during installation. See *Settings* on page 33 for more information.

Almost everything you need is included in the OMB Upgrade Kit. All you have to add is a soft cloth, a bit of your favorite guitar cleaning solution, and about thirty minutes.

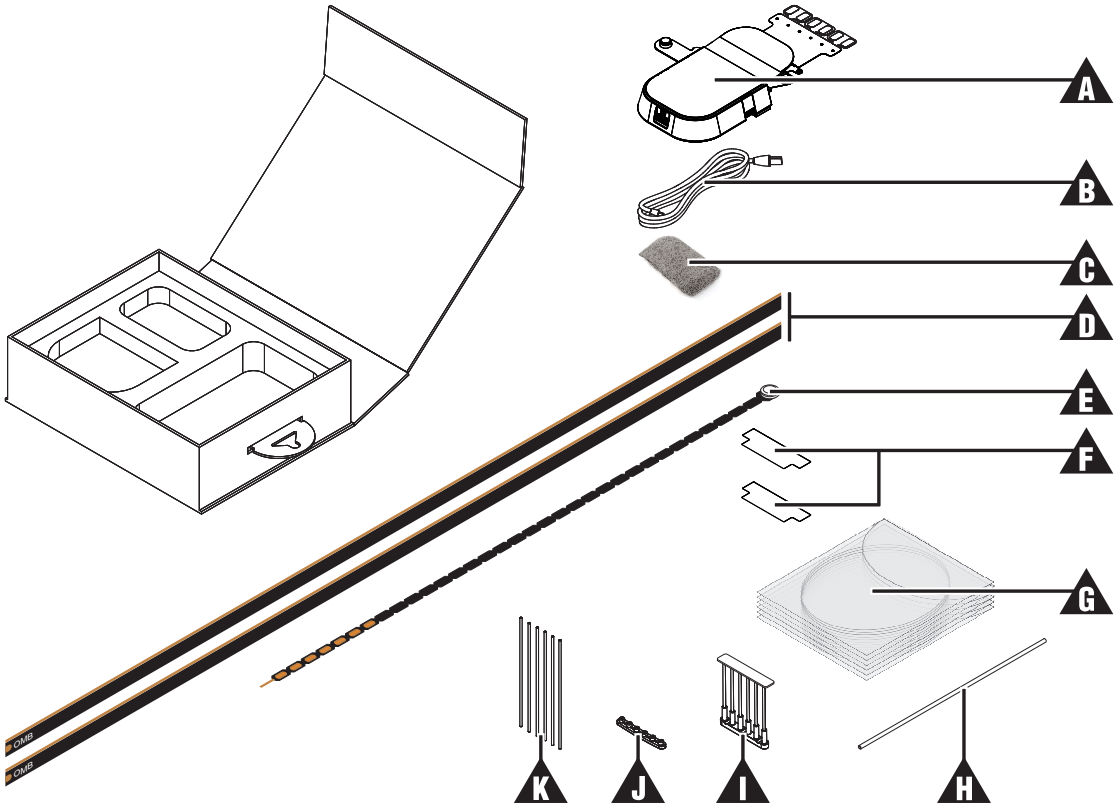
Oh—and one more thing: a soldering iron that can be adjusted to 660 ℉ (350 ℃).

If you’re not acquainted with the terms “cold joint,” or “insufficient wetting”—if you don’t own your own soldering iron—you might not want to experiment on your guitar for your first soldering project. So find an electronics-savvy friend, or a trusted guitar shop, to take care of this part of the installation for you.

Unpacking the Add-On Device

After opening the OMB Upgrade Kit packaging check to make sure that nothing is missing.

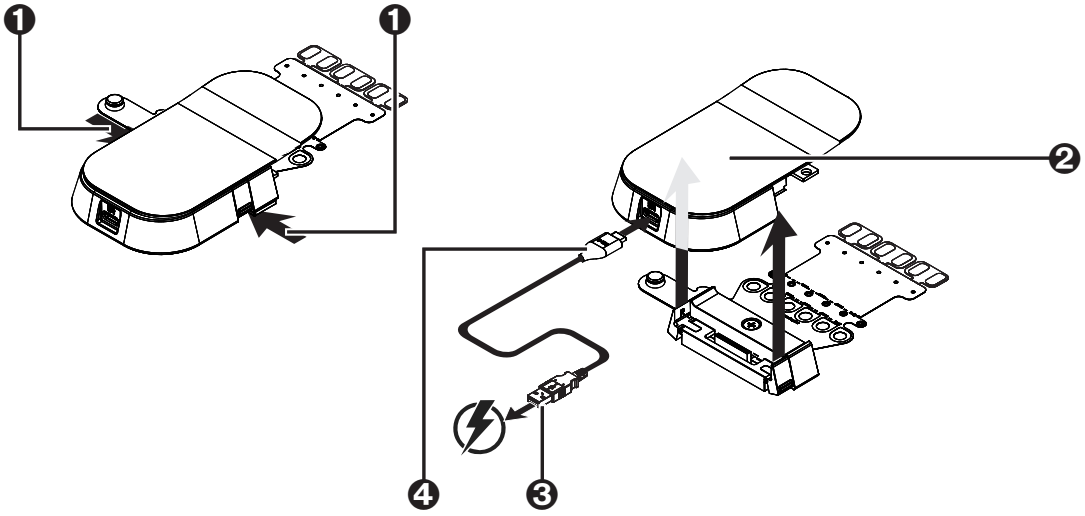
The OMB Upgrade Kit includes parts for upgrading either a steel string acoustic guitar or an electric guitar. At the end of installation you'll have some extra parts left over. The list below indicates what parts belong to what kind of installation.



- **A** Add-On Device
- **B** USB-C Cable (0.5 m)
- **C** Fine Steel Wool
- **D** Flat Conductive Tape (25" x 2) (65 cm x 2)
- **E** Diamond Conductive Tape (20") (50 cm)
- **F** Add-On Device Adhesive Strip (x 2)
- **G** Set of guitar strings
- **H** String guide insulating sleeve
- **I** String-through spacer block (for string-though body electric guitars)
- **J** Hard-tail bridge spacer block (for hard-tail bridge electric guitars)
- **K** Hard-tail bridge spacer block insulating sleeves (x 6)

Preparing the Add-On Device

In this step we prepare the Add-On Device for installation.

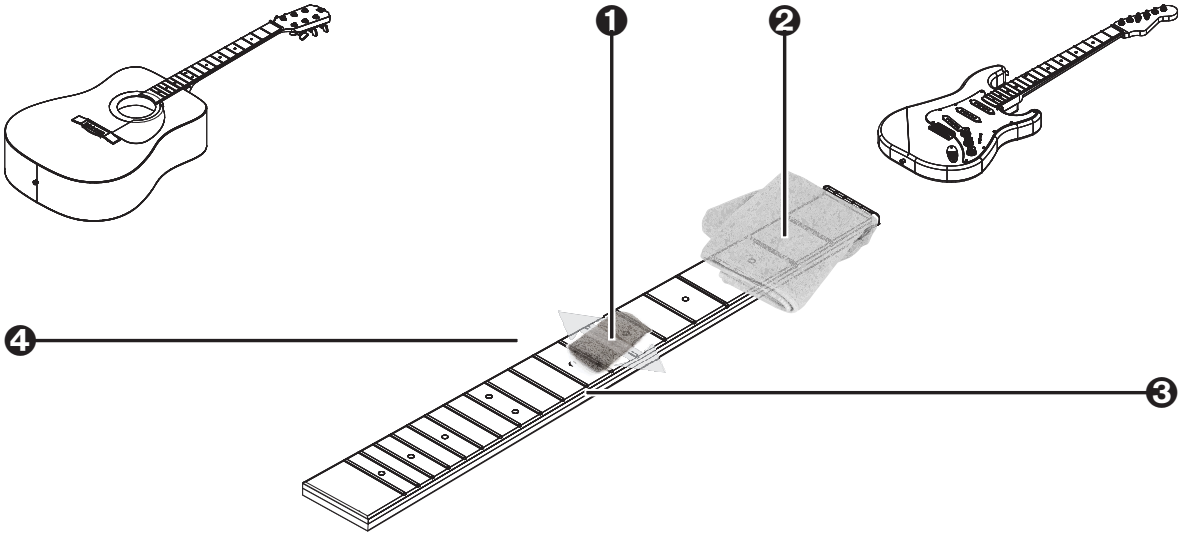


1. Press the bottom of the two clasps of the Base inward…
2. …and lift the Brain straight up.
3. Take the supplied USB-C cable and plug it into a power source…
4. …and insert the other end into the Brain USB connector to begin the charging process.

It may take up to two hours to charge completely.

Preparing Your Guitar

Before beginning to install the Add-On Device, remove your old strings, set them aside, and then get your guitar ready as follows:



❶ Take the fine steel wool from the packaging and very gently remove any corrosion or grease from the surface of the frets. Remember to include the fret edges on both sides of the fingerboard.

Be careful not to scrape the finish off of the frets.

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❷ Use a soft cloth moistened with your favorite cleaning fluid to clean the fingerboard, taking special care to remove any residue of the steel wool.

We recommend that you do not use alcohol for cleaning your guitar.

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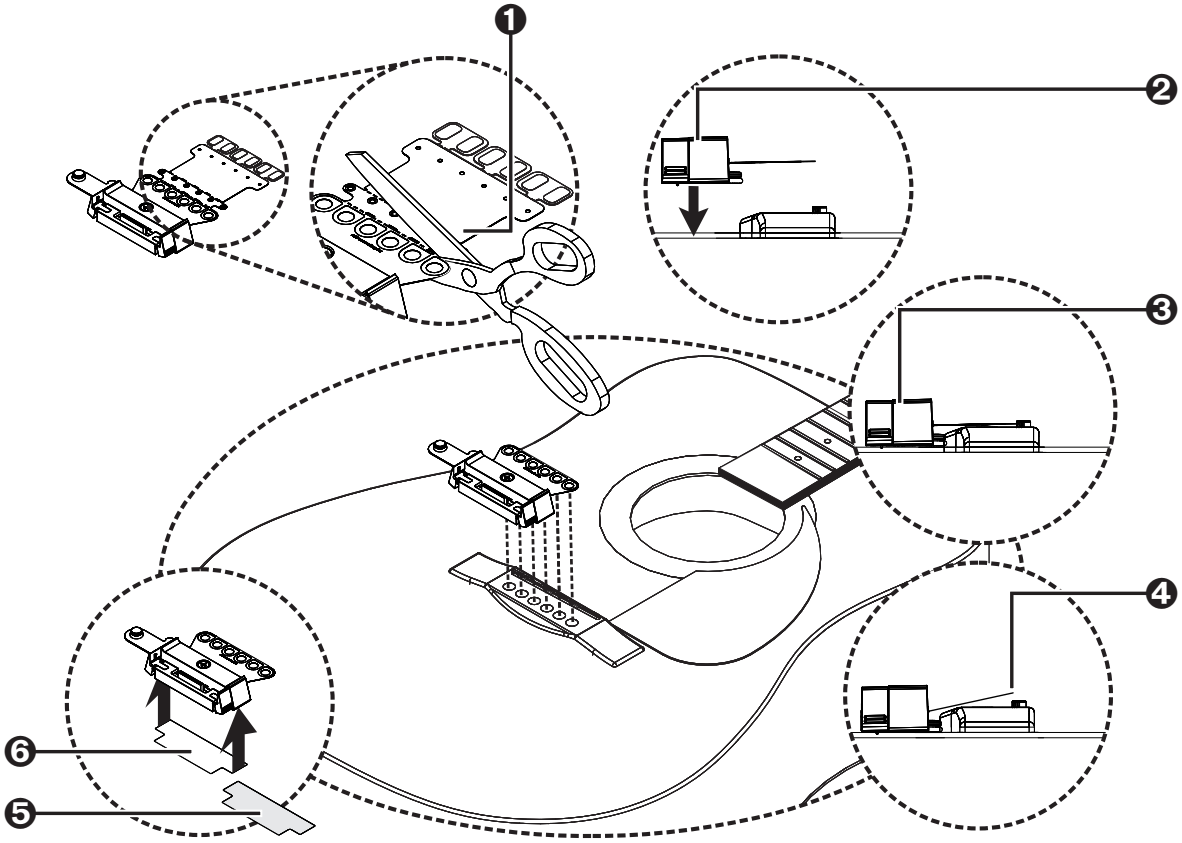
❸ Continue cleaning the side of the neck, directly below the frets…
❹ …and finish up with the other side of the neck.

When your guitar has dried thoroughly continue on the page indicated according to your guitar type:

- *Attaching the Add-On Device to Bridge-Pin Acoustic Guitars* (page 10)
- *Attaching the Add-On Device to Pinless Bridge Acoustic Guitars* (page 13)
- *Attaching the Add-On Device to String-Through Body Electric Guitars* (page 14)
- *Attaching the Add-On Device to Hard-Tail Bridge Electric Guitars* (page 18)

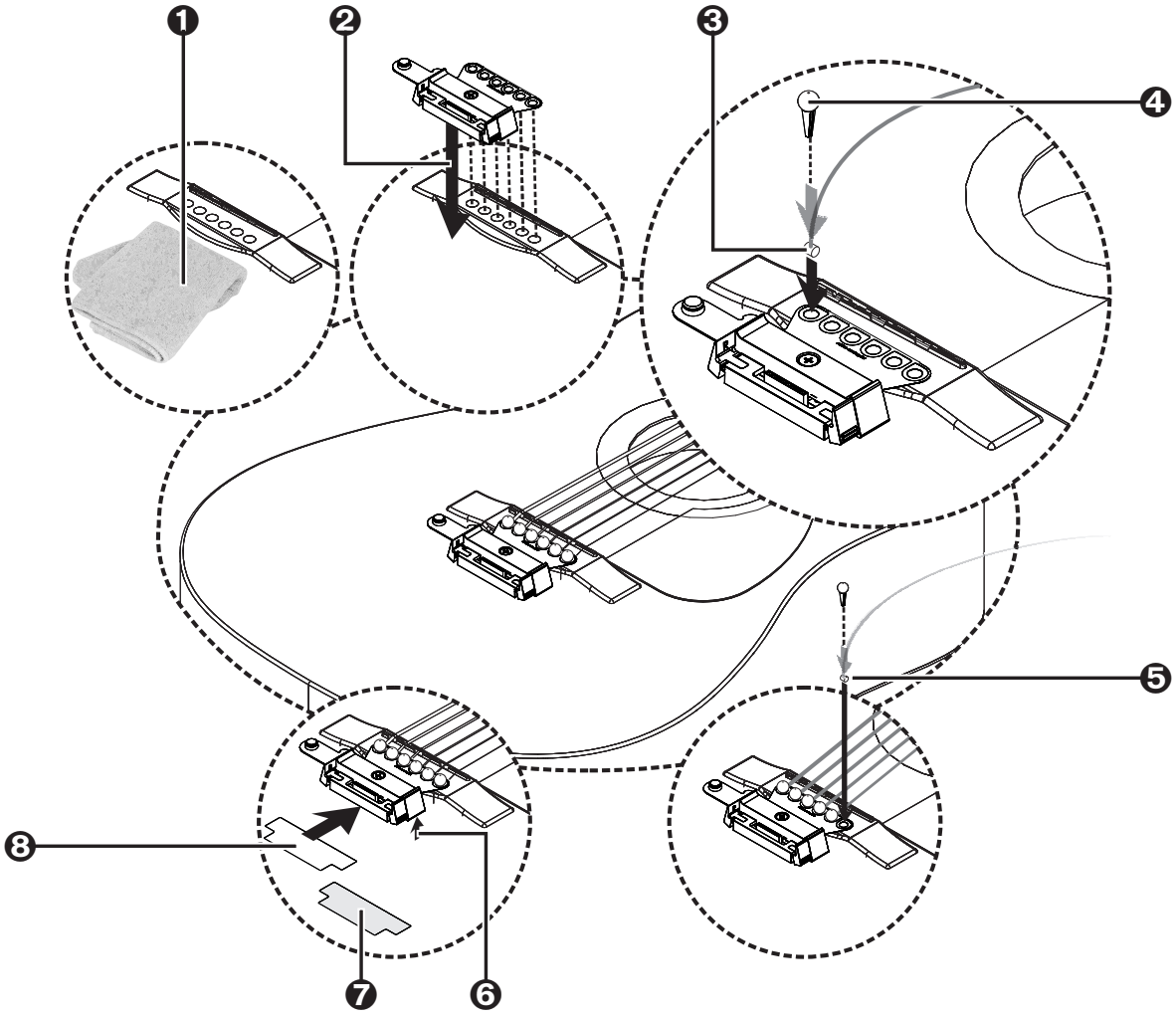
Attaching the Add-On Device to Bridge-Pin Acoustic Guitars

In this step you will modify the Add-On Device for your guitar, depending on the height of your bridge and the level of the bridge pins. If you have a pinless bridge guitar go to *Attaching the Add-On Device to Pinless Bridge Acoustic Guitars* (page 13).



1. With a pair of scissors, cut the flex connector on the first perforation after the large set of holes. Discard the excess where your community collects recyclable electronics.
2. Temporarily place the Base on the body of the guitar so the holes on the flex connector line up with the pin holes on the bridge.
3. If the level of the flex connector is suitable to the height of the bridge, you're finished with this step. Go to page 11.
4. However, if you own a guitar with a higher bridge, the flex connector will not fit comfortably on top of it. In that case…
5. …remove the adhesive backing from one of the pieces of the Add-On Device adhesive strip…
6. …and attach it into the bottom of the Base.

Continue as follows:



1. Clean the body of the guitar below the bridge with soft cloth and your favorite cleaning fluid.
2. Set the Base on the body of the guitar so the holes on the flex connector line up with the pin holes on the bridge.
3. Gently put the first string through the flex connector, taking care not to rip or damage it.

Most nickle-coated steel strings are compatible with OMB technology. However, we recommend that you use the strings provided in the OMB Upgrade Kit.

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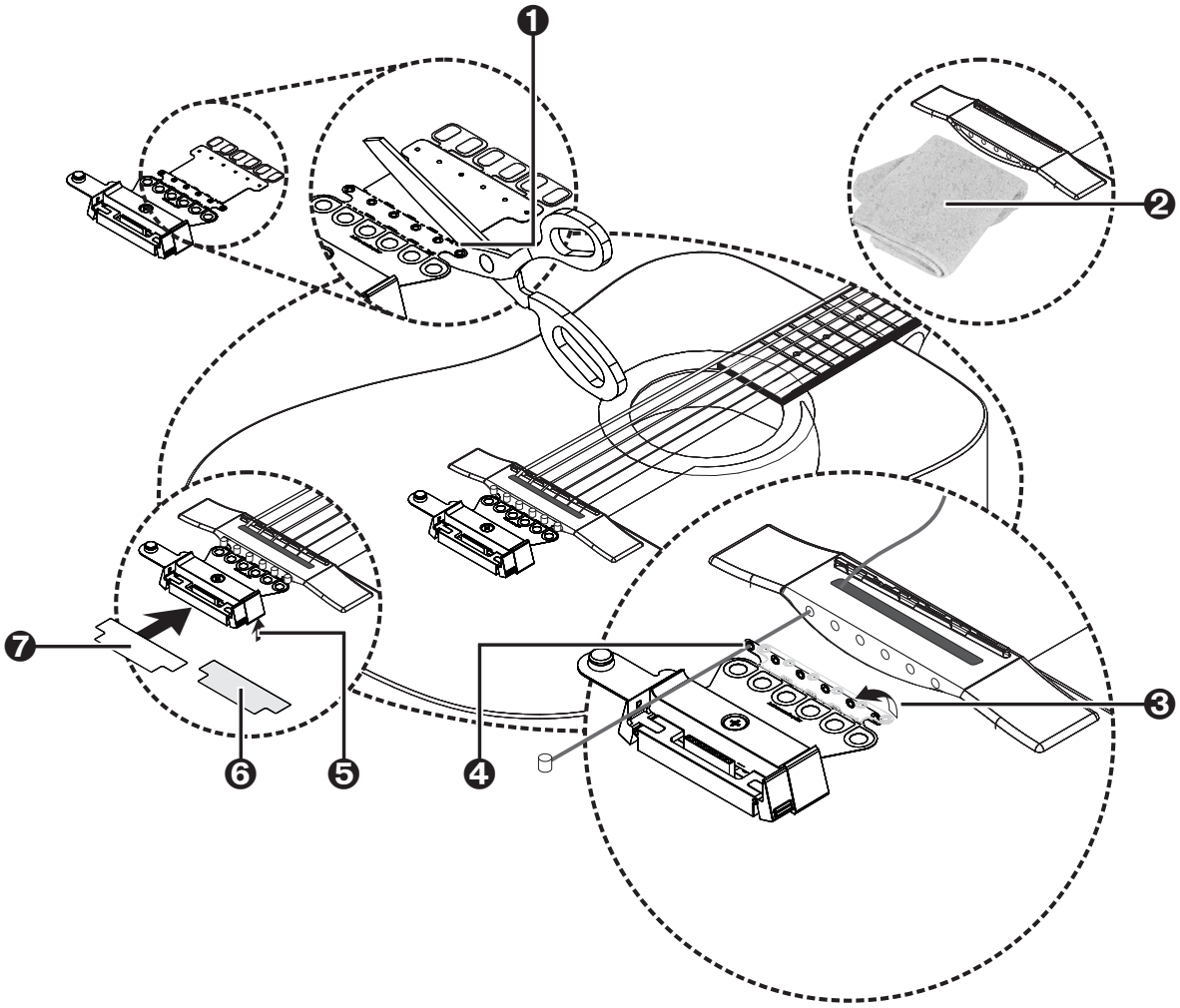
4. Lock the first string in place with its pin. Again, take care not to rip or damage to flex connector.
5. Continue stringing your guitar in the same way.
6. When you completed the last string slightly angle the base upward…
7. …remove the adhesive backing, take the adhesive strip…

❽ …and put the adhesive strip under the base. Then press it down on the body of the guitar to fix it in place.

Continue with *Attaching the Diamond Conductive Tape for Acoustic Guitars* (page 23).

Attaching the Add-On Device to Pinless Bridge Acoustic Guitars

In this step you will modify the Add-On Device for your pinless bridge guitar. If you have a bridge pin guitar go to *Attaching the Add-On Device to Bridge-Pin Acoustic Guitars* (page 10).

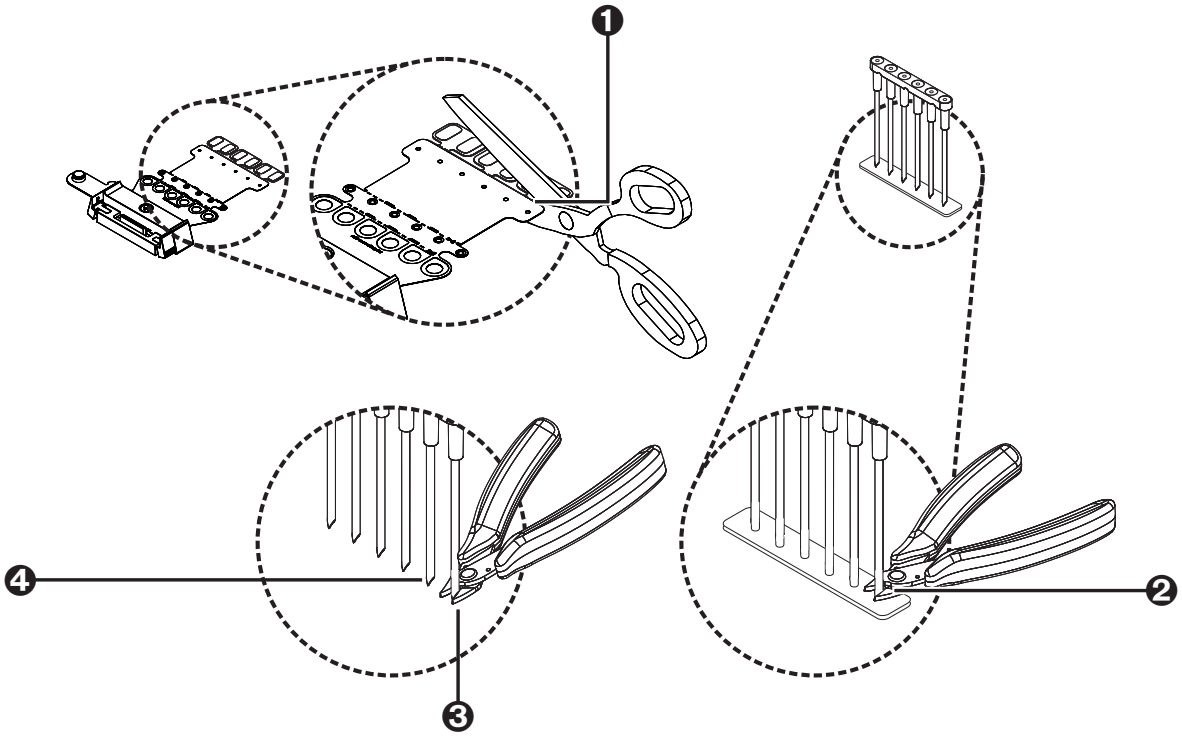


❶ With a pair of scissors, cut the flex connector on the second perforation after the large set of holes. Discard the excess where your community collects recyclable electronics.
❷ Clean the body of the guitar below the bridge with a soft cloth and your favorite cleaning fluid.
❸ Set the base on the body of the guitar and gently fold the flex connector so the holes line up with the string holes.
❹ Begin stringing your guitar. Take care not to damage or tear the flex connector.
❺ When you have finished stringing your guitar, slightly angle the base upward…
❻ …remove the adhesive backing, take the adhesive strip…
❼ …and put the adhesive strip under the base. Then press it down on the body of the guitar to fix it in place.

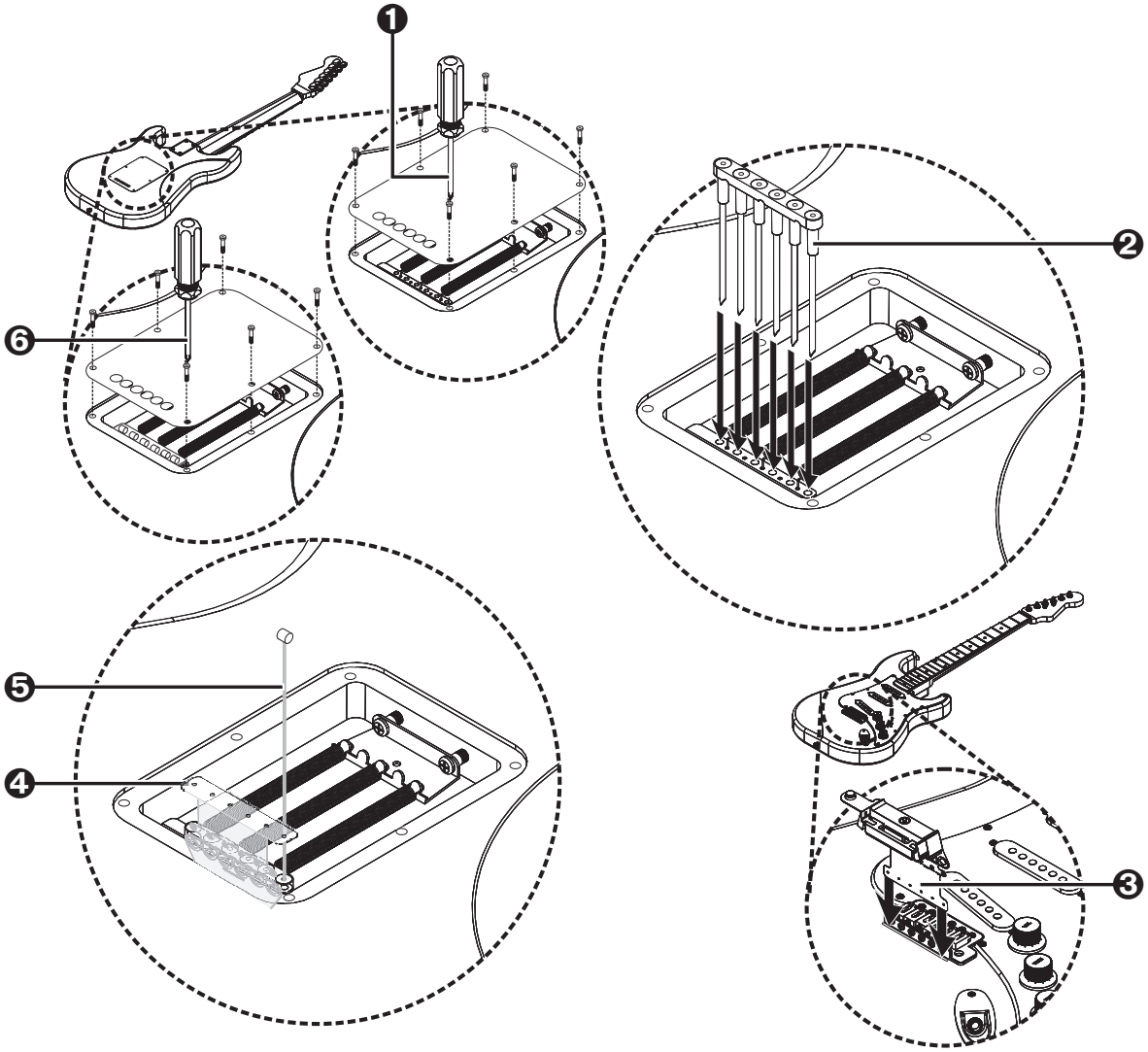
Continue with *Attaching the Diamond Conductive Tape for Acoustic Guitars* (page 23).

Attaching the Add-On Device to String-Through Body Electric Guitars

In this step you will attach the Add-On Device to your guitar, which includes the means to prevent your strings from touching any metal part of your guitar. If you have a hard-tail bridge electric guitar go to *Attaching the Add-On Device to Hard-Tail Bridge Electric Guitars* (page 18). If you have a Tune-o-matic bridge electric guitar go to *Attaching the Add-On Device to Tune-o-matic Bridge Electric Guitars* (page 20).



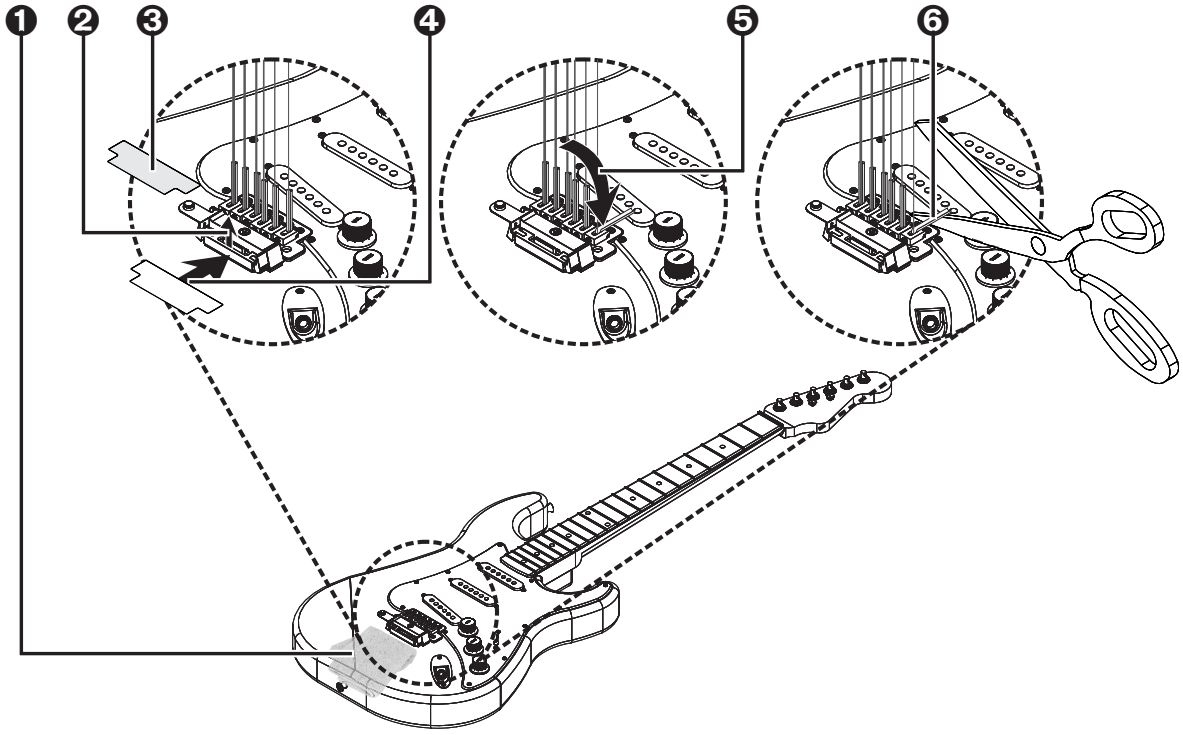
❶ With a pair of scissors, cut the flex connector on the third perforation after the large set of holes. Discard the excess where your community collects recyclable electronics.
❷ Take a clipper and cut the bracing member off of the String-through spacer block, and then discard it.
❸ Now trim the end of each of the exposed tubes so that theyhave a sharp narrow point. This point eases the passage through the guitar string holes in the next step.
❹ Continue with the rest of the exposed tubes.



1. Remove the back plate.
2. Take the trimmed String-through spacer block and thread the crescent insulation strips through the string holes, making sure that the open portion faces the bottom of the guitar.
3. Turn the guitar over and thread the flex connector through the small opening below the bridge…
4. Turn the guitar over again and bend the flex connector over the holes in the string spacer.
5. Insert the guitar strings, one by one, taking care not to rip or damage the flex connector.
6. Replace the back plate.

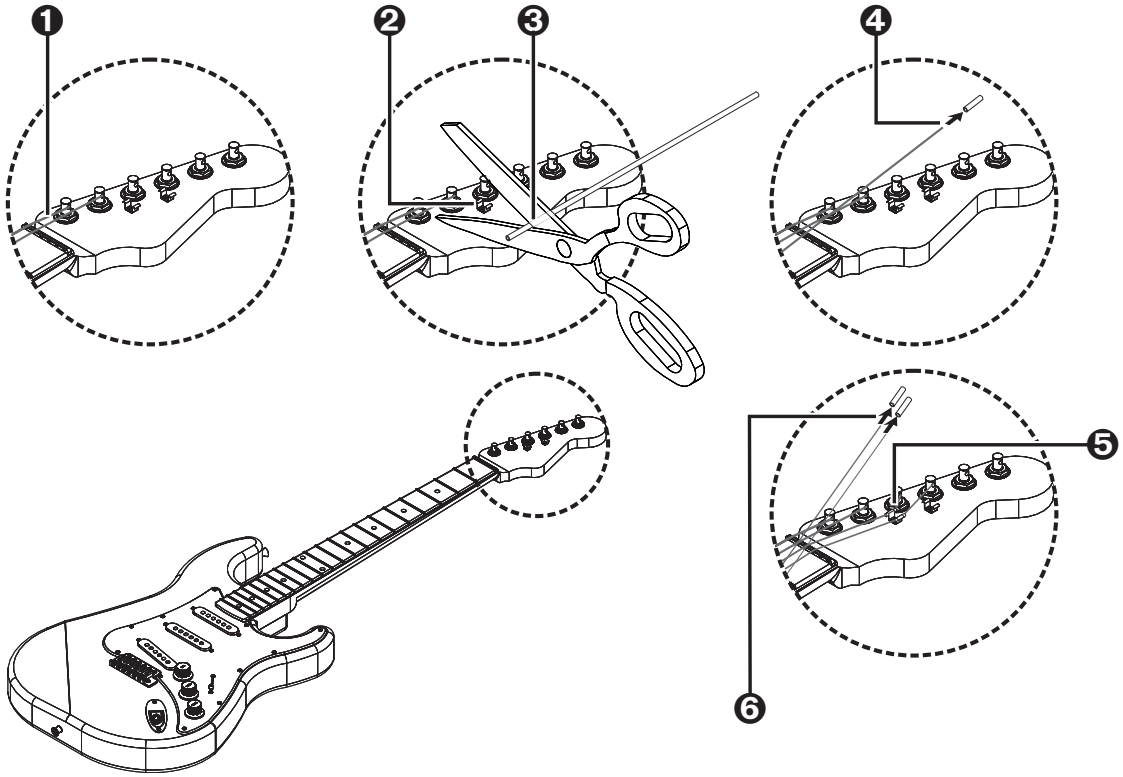
When you next replace your strings you do not have to remove the back plate.

Turn the guitar over and continue as follows:



❶ Clean the body of the guitar below the bridge with soft cloth and your favorite cleaning fluid.
❷ Slightly angle the Base upward…
❸ …remove the adhesive backing, take the adhesive strip…
❹ …and put the adhesive strip under the base. Then press it down on the body of the guitar to fix it in place.
❺ Bend the String-through spacer block insulation sleeve over the bridge…
❻ …and then cut it just beyond the bridge so that it is long enough to prevent the string from touching the metal but short enough so that it will not buzz when you play.

Continue as follows:

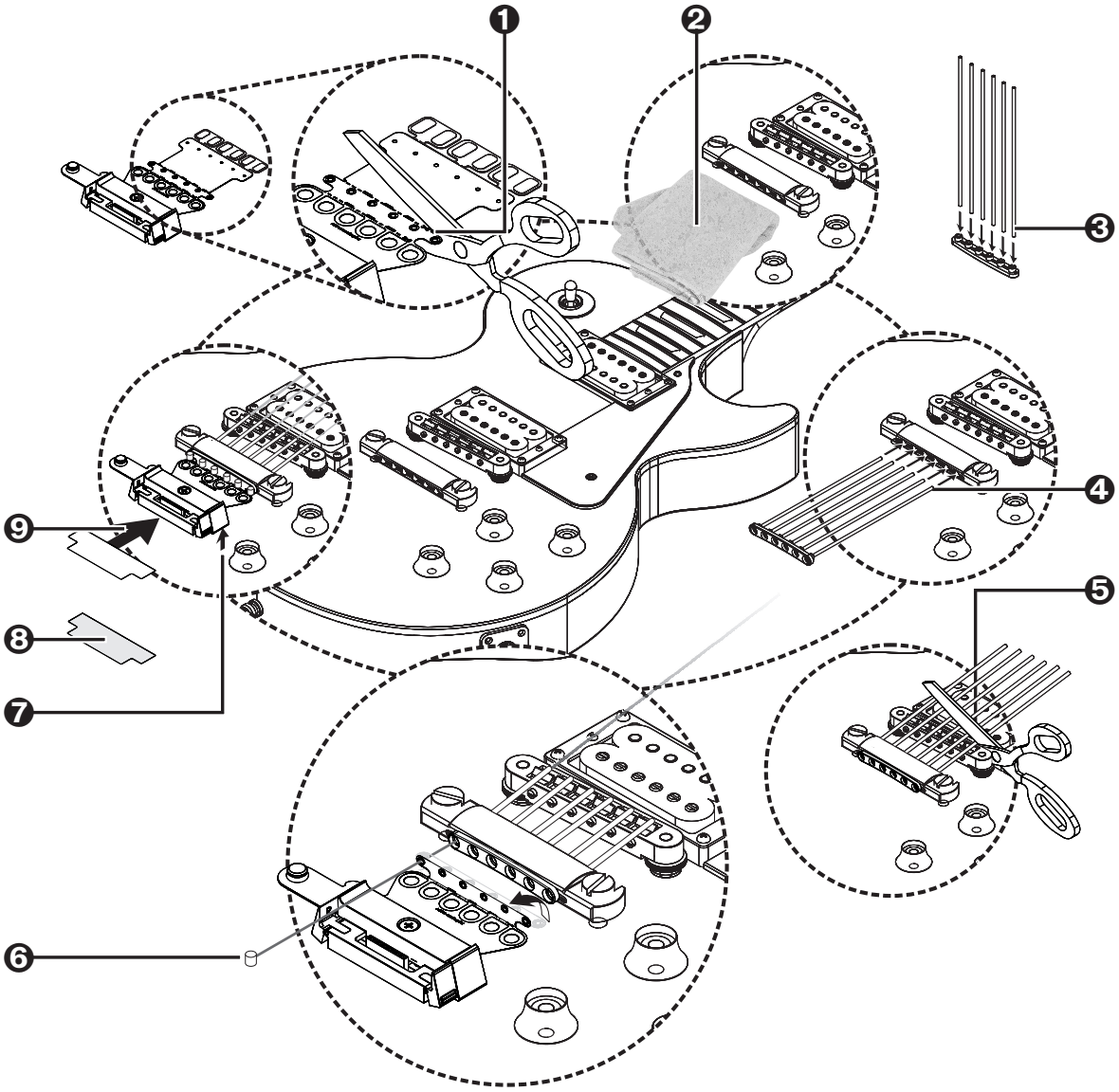


❶ Begin stringing your guitar.
❷ For guitars with string guides…
❸ …measure and cut pieces of the insulating sleeve so that they will extend beyond both ends of the metal string guides.
❹ Thread the strings that go through the string guides into the cut insulating sleeves…
❺ …and place the insulated string in the string guide. Then continue tightening the string.
❻ Continue until all of your strings are complete.

Continue with *Attaching the Diamond Conductive Tape for Acoustic Guitars* (page 23).

Attaching the Add-On Device to Hard-Tail Bridge Electric Guitars

In this step you will modify the Add-On Device for your hard-tail bridge electric guitar. If you have a string through body guitar go to *Attaching the Add-On Device to String-Through Body Electric Guitars* (page 14). If you have a Tune-o-matic bridge electric guitar go to *Attaching the Add-On Device to Tune-o-matic Bridge Electric Guitars* (page 20).



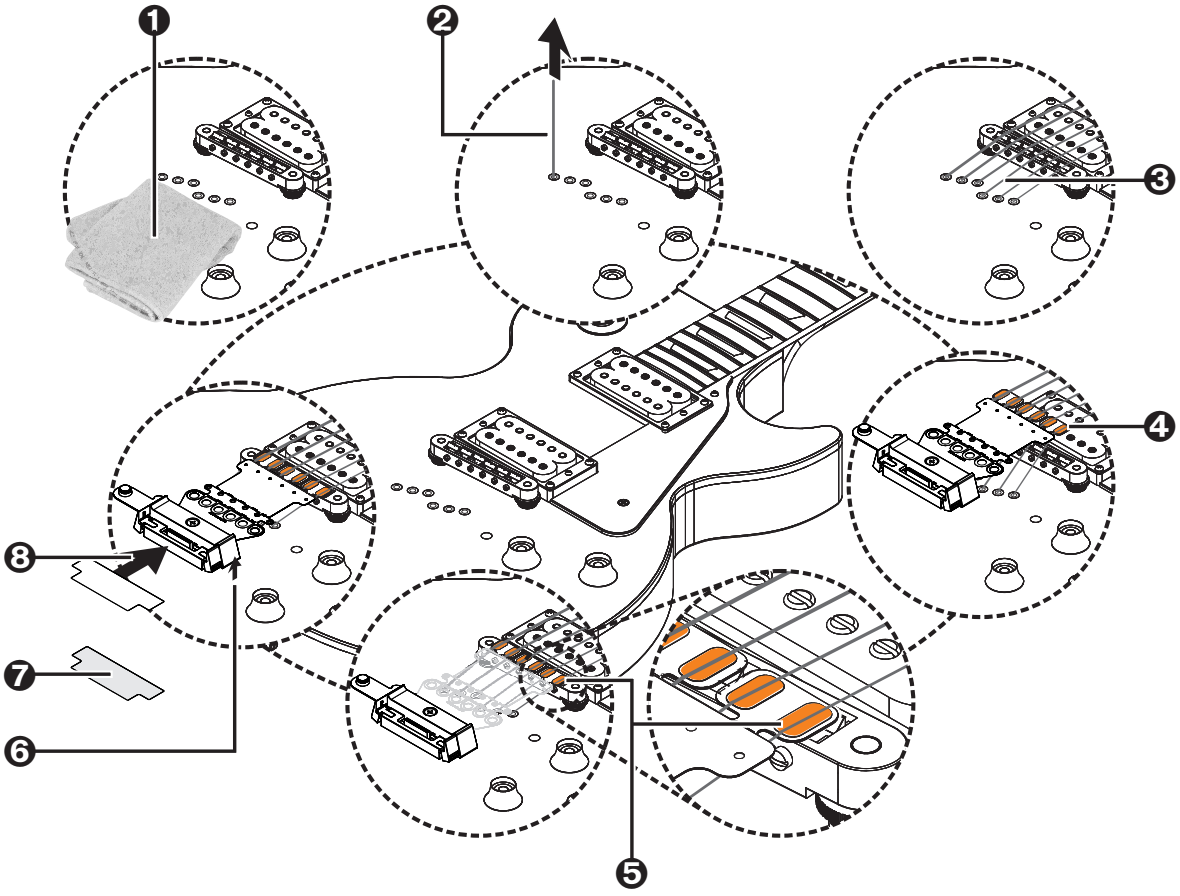
1. With a pair of scissors, cut the flex connector on the second perforation after the large set of holes. Discard the excess where your community collects recyclable electronics..
2. Clean the body of the guitar below the bridge with a soft cloth and your favorite cleaning fluid.
3. Take the Hard-tail bridge spacer block sleeves and insert them into the Hard-tail bridge spacer block.
4. Take the assembled Hard-tail bridge spacer block and thread the sleeves through the string holes in the tailpiece.

❺ Trim the tubing just beyond the bridge, making sure that it insulates the string from the metal saddle, but not so long that it will buzz against the string.
❻ Set the Base on the body of the guitar, gently fold the flex connector so the holes line up with the string holes, and then begin stringing your guitar, taking care not to rip or damage the flex connector.
❼ When you're finished stringing your guitar slightly angle the base upward…
❽ …remove the adhesive backing, take the adhesive strip…
❾ …and put the adhesive strip under the base. Then press it down on the body of the guitar to fix it in place.

Continue with *Attaching the Diamond Conductive Tape for Electric Guitars* (page 25).

Attaching the Add-On Device to Tune-o-matic Bridge Electric Guitars

In this step you will modify the Add-On Device for your Tune-o-matic bridge electric guitar. If you have a string through body guitar go to *Attaching the Add-On Device to String-Through Body Electric Guitars* (page 14). If you have a hard-tail bridge electric guitar go to *Attaching the Add-On Device to Hard-Tail Bridge Electric Guitars* (page 18)



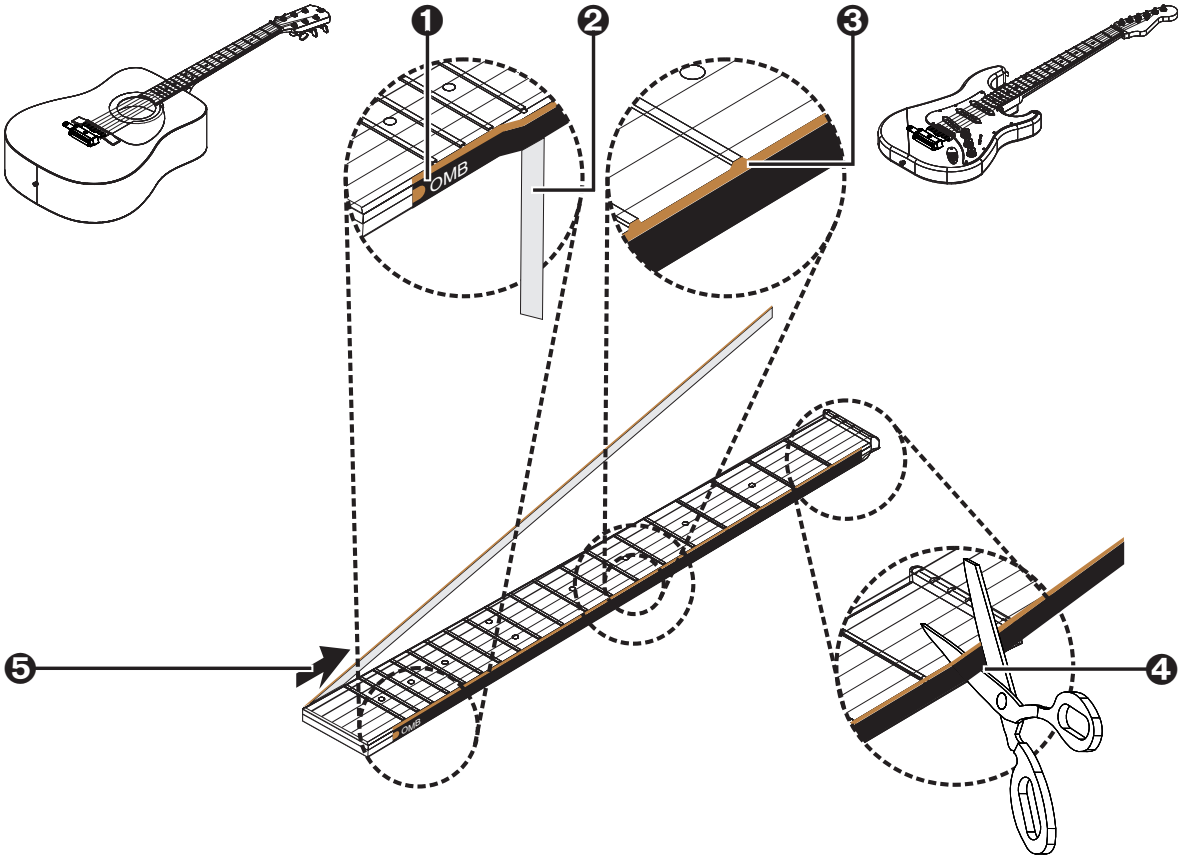
1. Clean the body of the guitar below the bridge with a soft cloth and your favorite cleaning fluid.
2. Begin pulling new guitar strings from the bottom of your guitar.
3. Complete stringing your guitar, but tighten them only until they sit losely on the tailpiece saddles.
4. Take the Base and thread the strings through the openings at the end of the flex connector so that the copper contact is between the saddle and the string.
5. Finish tightening the strings, taking care not to rip or damage the flex connector.
6. When you're finished stringing your guitar slightly angle the base upward…
7. …remove the adhesive backing, take the adhesive strip…
8. …and put the adhesive strip under the base. Then press it down on the body of the guitar to fix it in place.

Continue with *Attaching the Diamond Conductive Tape for Electric Guitars* (page 25).

Attaching Flat Conductive Tape to the Guitar Neck

Now you'll attach flat conductive tape to both sides of the neck. When it is soldered to the frets (page 22) this creates a complete electrical circuit that the Add-On Device uses to understand what you are playing.

Before starting make sure that you have cleaned both sides of the guitar neck (page 9) and that it is perfectly dry.



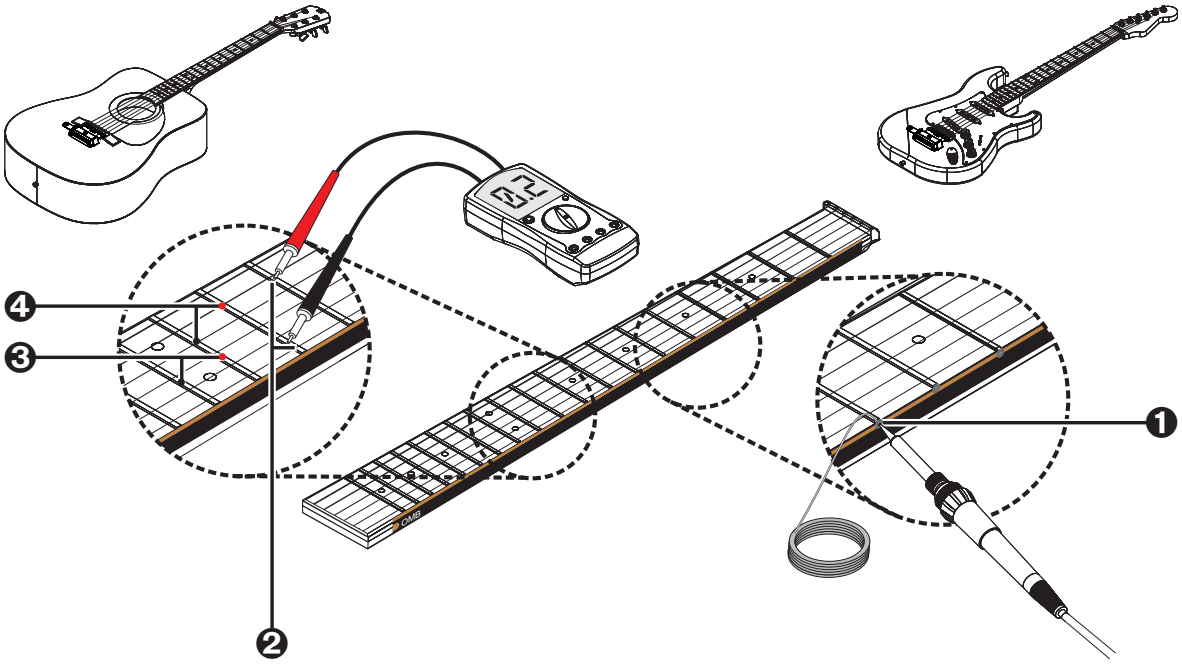
❶ Take one piece of the flat conductive tape with the copper strip facing upward and the OMB logo toward the body of the guitar.
❷ Pull a small section of the backing away to reveal the adhesive and press the end of the Flat Conductive Tape against the neck of the guitar as close to fret 14 as possible.
❸ Continue attaching the flat conductive tape to the neck of the guitar, making sure to press the copper strip over the end of each fret as you go.
❹ Cut the flat conductive tape when it has gone beyond the first fret.
❺ Take the second piece of the flat conductive tape and connect it to the other side of the neck in the same way, making sure that the copper strip is pressed over each fret.

Soldering the Flat Conductive Tape to the Frets

We recommend that you first apply solder to the fret and then to the flat conductive tape to assure that you create joints only on the metal surfaces. Letting hot solder touch the fretboard or neck may damage the wood finish.

Only use a soldering iron that can be adjusted to 660 °F (350 °C).

If you're not acquainted with the terms "cold joint," or "insufficient wetting"—if you don't own your own soldering iron—you might not want to experiment on your guitar for your first soldering project. So find an electronics-savvy friend, or a trusted guitar shop, to take care of this part of the installation for you.



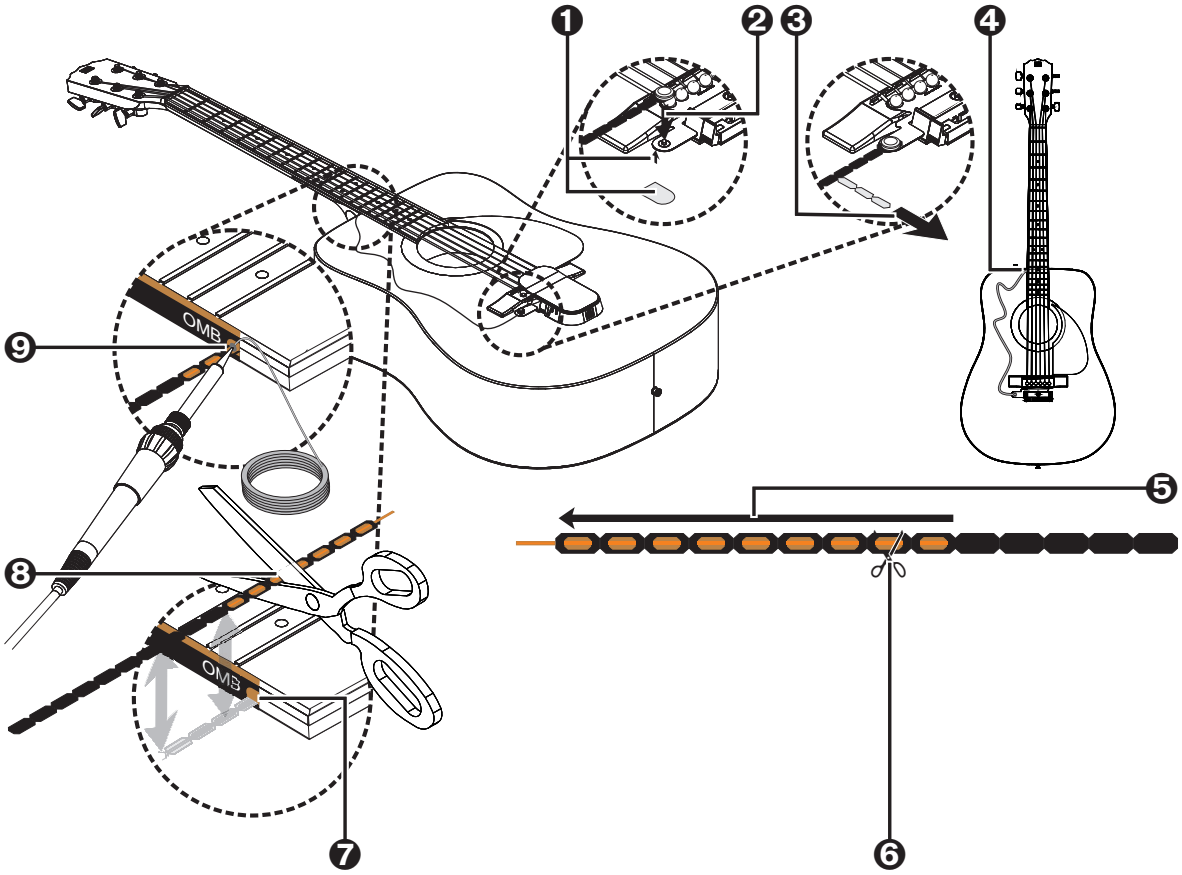
❶ Solder the ends of both sides of each fret to the flat conductive tape. Examine each joint, when it is done, to make sure that it is clean and shiny.
❷ After you have completed soldering both sides of both frets to the flat conductive tape give them all another look and repair any suspicious joints. If you own a multimeter, or can borrow one from a friend, you can assure yourself that the joints are good by measuring the resistance between two adjacent frets and verify that it is no higher than 0.2Ω.
❸ Continue checking all adjacent fret pairs…
❹ …pair by pair.

If you have an acoustic guitar continue with *Attaching the Diamond Conductive Tape for Acoustic Guitars* (page 23). If you have an electric guitar continue with *Attaching the Diamond Conductive Tape for Electric Guitars* (page 25).

Attaching the Diamond Conductive Tape for Acoustic Guitars

In this step you attach the snap-connector of the Diamond Conductive Tape to the Add-On Device, lay it on the body of your guitar in a pleasing shape, trim it to size, and then solder it to the Flat Conductive Tape just below the thirteenth fret.

Before continuing, make sure that the area of the snap is still clean.



1. Lift the snap connector of the Base slightly, remove the adhesive backing, and press it to the body of the guitar.
2. Take the diamond conductive tape and press its snap connector on the base until you hear it snap.
3. Remove a portion of the adhesive strip from the diamond conductive tape and attach the first few segments to the body of the guitar.
4. Plan out a design that matches the lines of your guitar—or go crazy and form any shape that suits your mood—keeping the following in mind:
   - The end of the Diamond Conductive Tape, after trimming, must be soldered on the copper point at the end of the flat conductive tape.
   - Avoid creating sharp corners in order to prevent damage to the Diamond Conductive Tape
5. Once you have an idea for your design, take a look at the diamond conductive tape and notice the conductive copper that is visible in the last nine segments.
6. Trim the diamond conductive tape in the middle of any of these nine segments so the design you are making ends up exactly at the copper point at the end of the flat conductive tape.

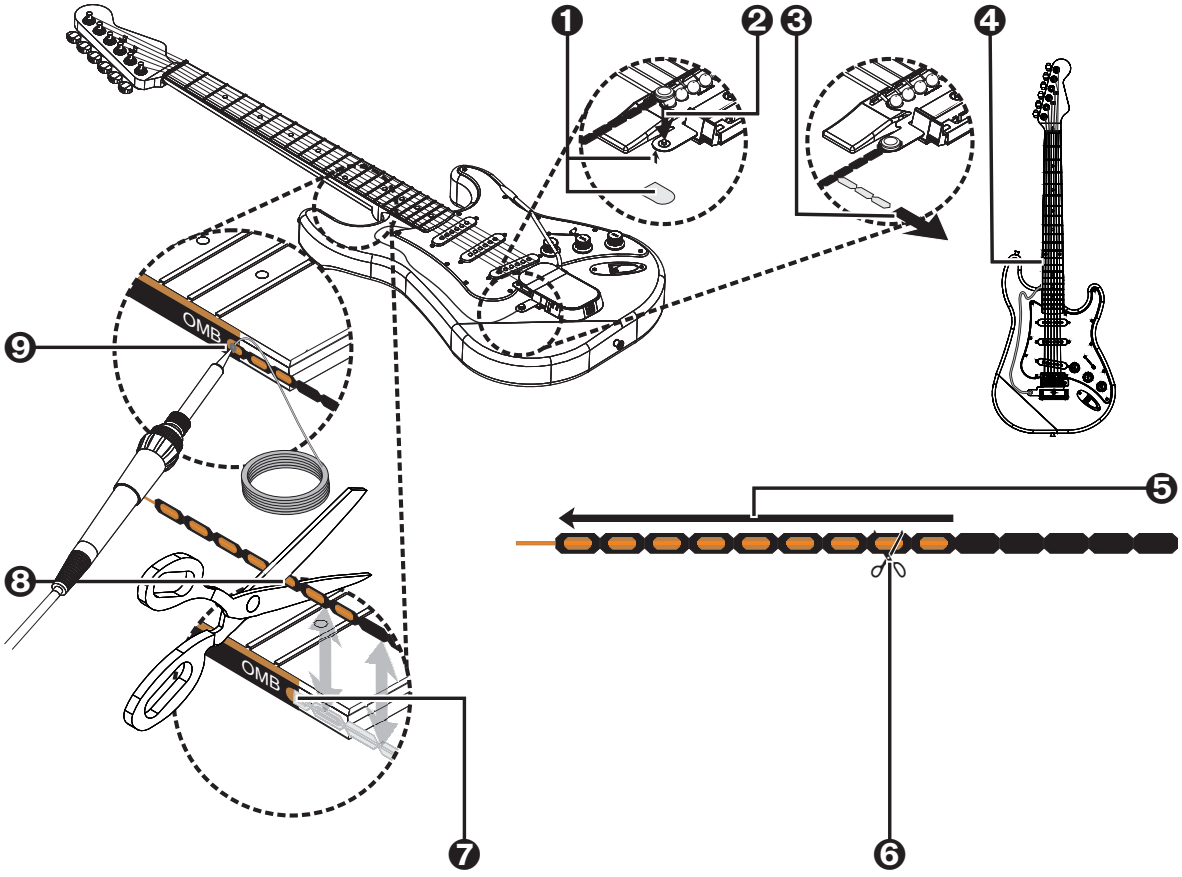
❼ When you have completed your design measure the end of the diamond conductive tape…
❽ …and cut it in the center of the closest segment.
❾ Place the cut end of the diamond conductive tape against the copper point at the end of the flat conductive tape and solder them together. Make sure that you make a good clean joint.

You can now put away your soldering iron.

Attaching the Diamond Conductive Tape for Electric Guitars

In this step you attach the snap-connector of the flexible Diamond Conductive Tape to the Add-On Device, lay it on the body of your guitar in a pleasing shape, bring it up the neck of the guitar to just below the thirteenth fret, trim it to size, and then solder it to the Flat Conductive Tape.

Before continuing, make sure that the area of the snap is still clean.



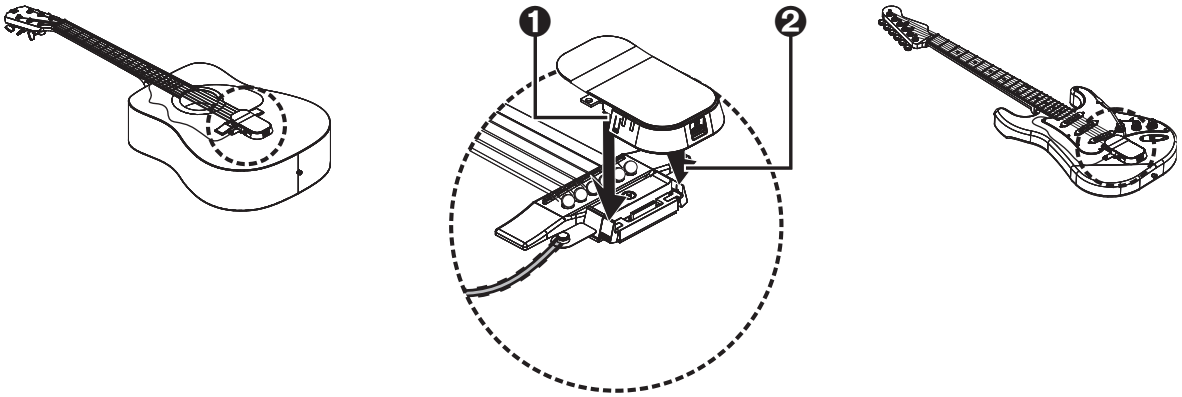
1. Lift the snap connector of the Base slightly, remove the adhesive backing, and press it to the body of the guitar.
2. Take the diamond conductive tape and press its snap connector on the base until you hear it snap.
3. Remove a portion of the adhesive strip from the diamond conductive tape and attach the first few segments to the body of the guitar.
4. Plan out a design that matches the lines of your guitar—or go crazy and form any shape that suits your mood—keeping the following in mind:
   - The end of the Diamond Conductive Tape, after trimming, must be soldered on the copper point at the end of the flat conductive tape.
   - Avoid creating sharp corners in order to prevent damage to the Diamond Conductive Tape
5. Once you have an idea for your design, take a look at the diamond conductive tape and notice the conductive copper that is visible in the last nine segments.

❻ Trim the diamond conductive tape in the middle of any of these nine segments so the design you are making ends up exactly at the copper point at the end of the flat conductive tape.
❼ When you have completed your design measure the end of the diamond conductive tape…
❽ …and cut it in the center of the closest segment.
❾ Place the cut end of the diamond conductive tape against the copper point at the end of the flat conductive tape and solder them together. Make sure that you make a good clean joint.

You can now put away your soldering iron.

Completing Add-On Device Installation

Just a few more steps, and you'll be ready.



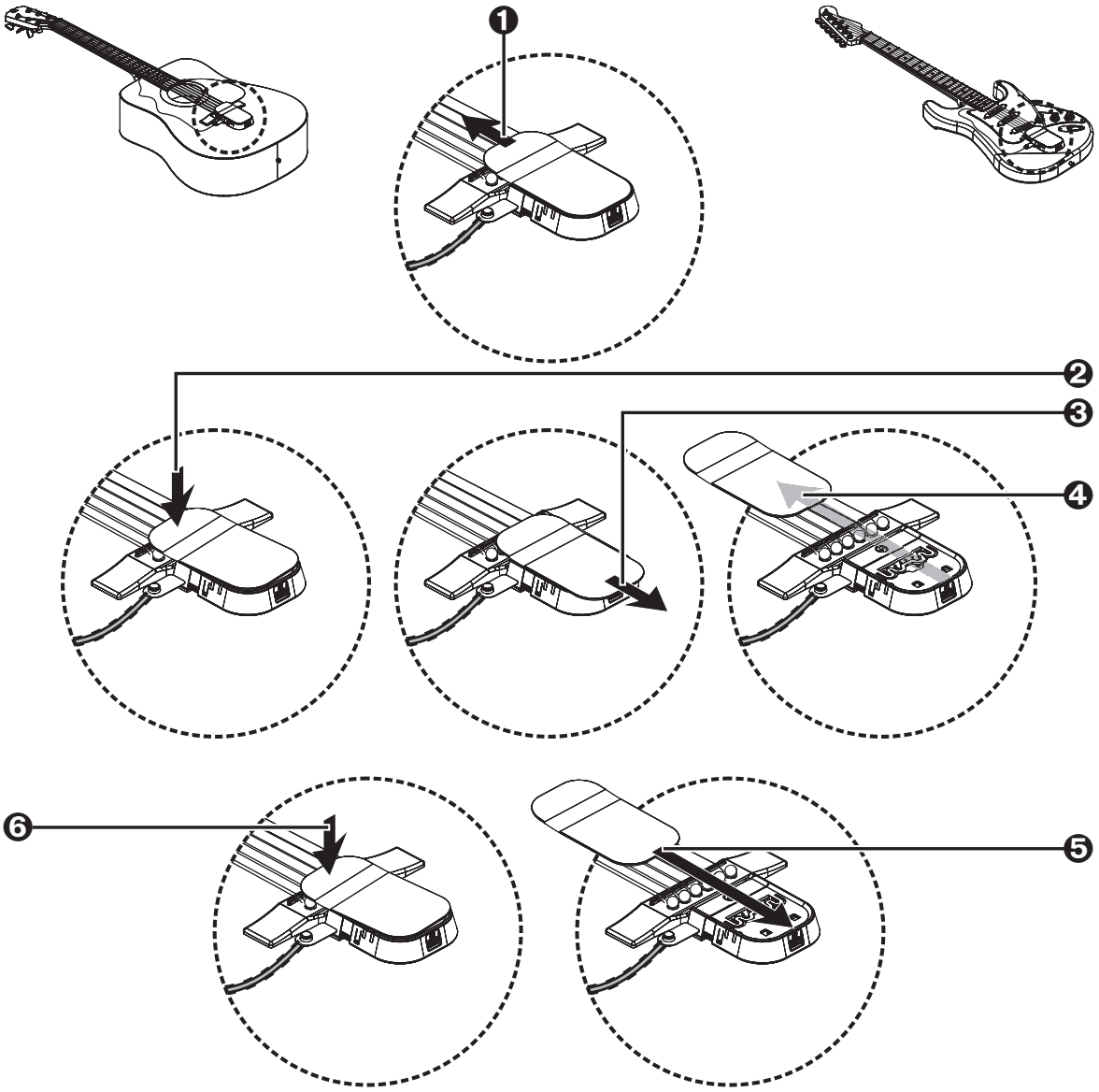
❶ Take the Brainand push in the clasps on the sides.
❷ Push the Base down until it snaps into the clasps.

If the brain has not completed a full two hour charge you may leave it plugged in while you set up the OMB App and begin to play.

And that’s it. Now it’s time to start making music.

Palm Muting with the Add-On Device

You can use palm muting on your OMB guitar by removing the Add-On Device plate.



❶ Grasp the free end of the plate, and pull it slightly outward, toward the neck of the guitar.
❷ Tilt the plate down…
❸ …push it back…
❹ …and then pull it out and set it aside.

When you are ready to return to full volume…

❺ …slide the shield back into place…
❻ …and push it down until it snaps into place.

Let's Make Music with OMB

We at OMB have made a huge effort to lay the foundations for endless possibilities for all of us: musicians and guitarists. From now on we invite you to give free rein to your imagination and let OMB help you take your guitar to places you've never been before.

We encourage you to play with your new OMB device, have fun with it, explore its possibilities—find the right way for *you*, as an individual, or as a band member, to use it, and to discover what, what we at OMB have not yet found out for ourselves.

We'd like to say that the sky is the limit, and we're working, all the time, to get there. In the meantime, let us know where you've tried to go that we didn't even think about. Share with us what you think would make your OMB experience just that much better. Whether you have a problem, an improvement we might make, or an idea for an amazing new feature, let's work together to make it happen.

When connecting to the OMB App, you will notice that each sound reacts differently: some shorter, some longer, some with a built-in latency, some lightning quick. We urge you to approach these sounds with an open mind, and let yourself immerse yourself with a creative musical sensitivity. See where these new sounds and styles take you. Let yourself be led by your imagination—don't be afraid, don't be shy. Let your creativity guide you toward new horizons.

Enough talk. Now let's make music. So here goes:

❶ *Power-Up Your OMB Guitar* (page 35).
❷ Go to *Bluetooth Pairing* (page 36)

You may use a C-type USB cable to connect your OMB guitar to the device where the OMB App is installed if you prefer not to use Bluetooth.

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❸ Go to *Settings* (page 33) if you are a right-handed guitar player.

❹ Finish with *Calibration* (page 38).

And that's enough to get you started. When you want to explore more features and possibilities, or have questions about how things work, dip back into this User Guide.

OMB App Main Screen

This is a typical main screen of the OMB App.

Screen Element	Explanation/Link
A **Styles Menu** button	*Playing in Chord Mode* (page 41)
B OMB Battery level	Battery level of OMB Guitar
C OMB to OMB App connection	OMB Guitar paired to OMB App
D OMB Pedal to OMB App connection	Battery level of paired OMB Foot Pedal
E Link to http://ombguitars.com/	Click here to get news about future releases and offerings available from OMB
F Detected chord	*Playing in Chord Mode* (page 41)
G Record toggle	*Recording using OMB* (page 48)
H Tempo control	*Playing in Chord Mode* (page 41)

Screen Element	Explanation/Link
I Tempo lock	*Playing in Chord Mode* (page 41)
J Menu popout	*OMB Settings Menu* (page 33)
K Playback Control panel	*Playing in Chord Mode* (page 41)
L Solo toggle	*Playing in Solo Mode* (page 44)
M Muted instrument	*Playing in Chord Mode* (page 41)
N Chord mode controls	*Playing in Chord Mode* (page 41)
O Sustain toggle	*Playing in Solo Mode* (page 44)
P Solo level volume control	Controls the volume in *Solo* mode.
Q Master level volume control	Adjusts the volume of device where the OMB App is installed
R Input levels	Shows input levels while you are *Playing in Chord Mode* (page 41) or *Playing in Solo Mode* (page 44).
S Master playback volume control	Adjusts the volume of all local instruments. See *Playing in Chord Mode* on page 41 for more information.
T Selected theme	*Playing in Chord Mode* (page 41)

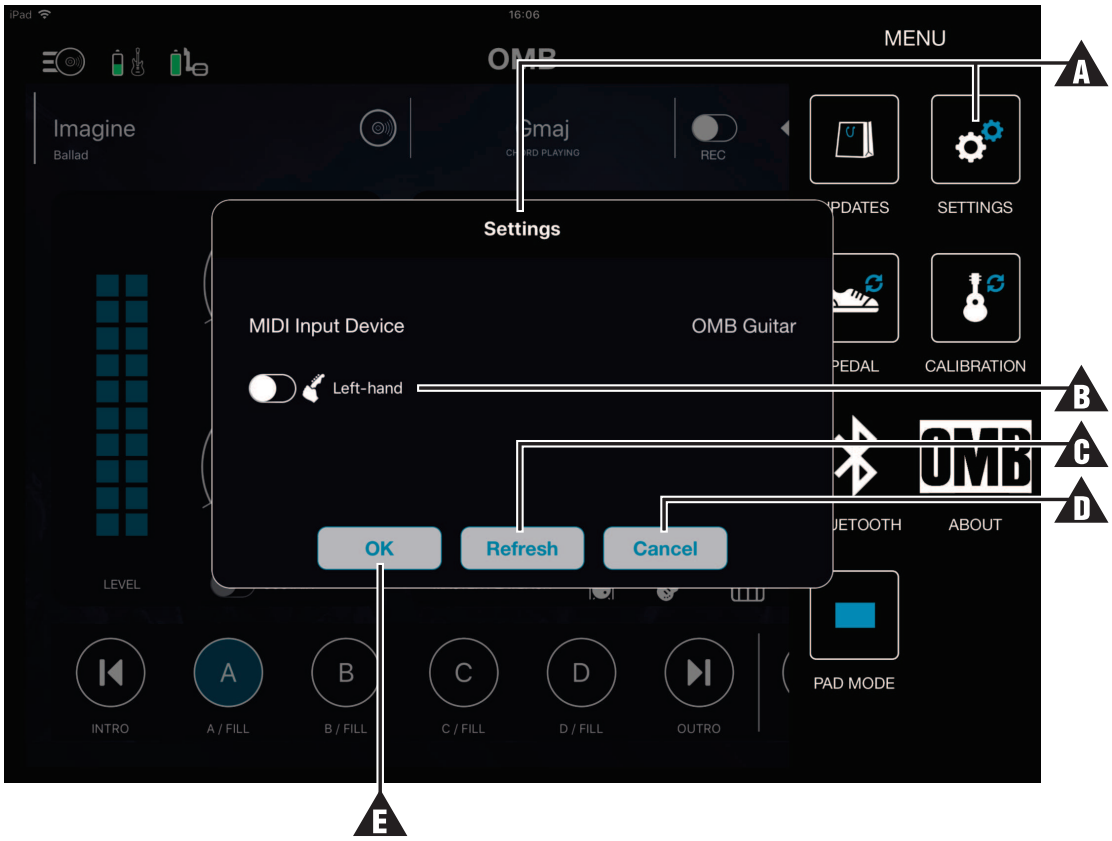
OMB Settings Menu

Tap the **Settings** menu to access different OMB App settings.

Screen Element	Explanation/Link
A Updates	Click to check for OMB App updates, new features, and add-ons
B Settings	OMB App *Settings* (page 33)
C Calibration	Guitar *Calibration* (page 38)
D OMB	View the OMB **About** popup window
E Pad Mode	*Playing in Pad Mode* (page 46)
F Bluetooth	*Bluetooth Pairing* (page 36)
G Pedal	Set up the OMB Foot *Pedal* (page 55)

Settings

Use the settings window to customize the OMB App for left-handed fingering.



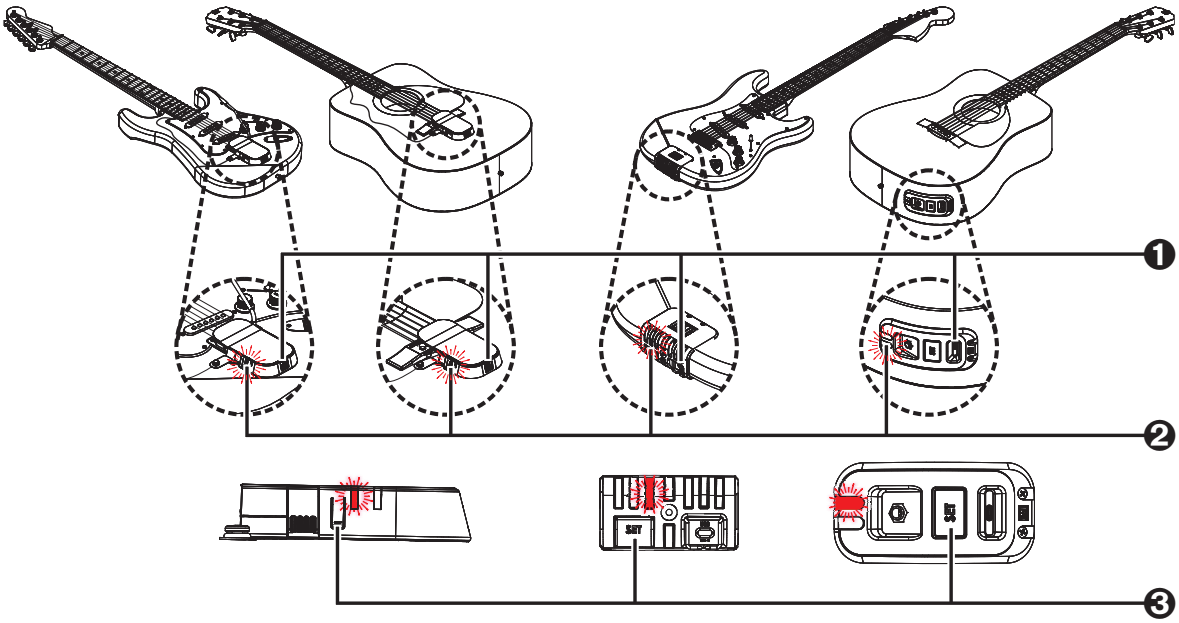
When you open the **Settings** window (A) you can toggle your OMB guitar into left-hand mode (B)

Tap **Refresh** (C) to do (what?) or **Cancel** (D) to exit the **Settings** window without making any changes.

Tap **OK** (E) to save your changes and exit to the **Settings** menu.

Power-Up Your OMB Guitar

Once you have downloaded and launched the OMB App it's time to power up your OMB guitar.



❶ Connect the OMB guitar to a power source—either a computer USB port or a standard USB charger—with a C-type USB cable.
❷ The red LED flashes about once a second during the charging process.

You may continue setting up your guitar, and play with it, as well. while it is charging up.

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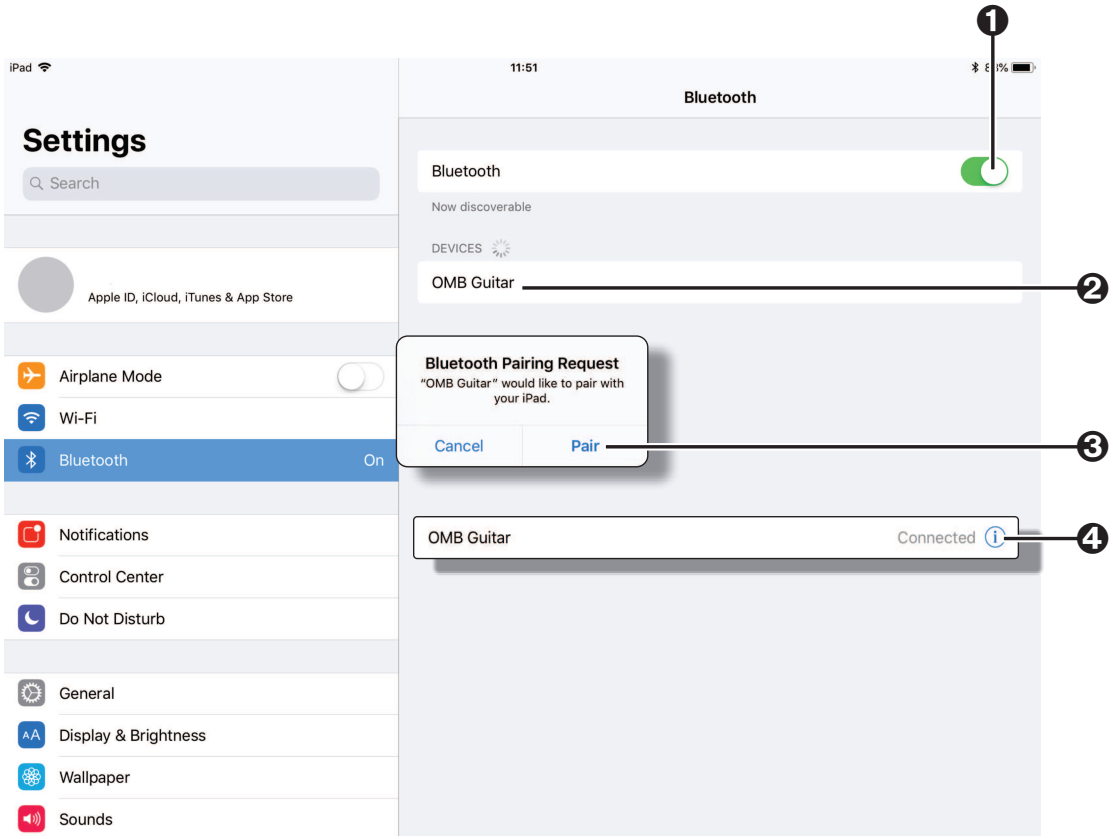
❸ After your OMB guitar is charged, or if you've previously shut it down, briefly press the **SET** button. The red LED begins to flash about once a second.

Bluetooth Pairing

With your OMB guitar on let's pair it with your tablet's Bluetooth.

You may use a C-type USB cable to connect your OMB guitar to the device where the OMB App is installed if you prefer not to use Bluetooth.



❶ Go to your device's settings and enable Bluetooth if it is not already enabled.
❷ When it finds OMB Guitar tap it and then tap Pair. The OMB Guitar is now shown as Connected.

❶ Launch the OMB app and open the menu popout.
❷ Tap Bluetooth.
❸ If the app doesn't automatically connect your guitar, tap it to make the connection.
❹ Return to the main screen. The guitar icon indicates successful pairing. To verify, form a chord or two and see how the app identifies your fingering.

Calibration

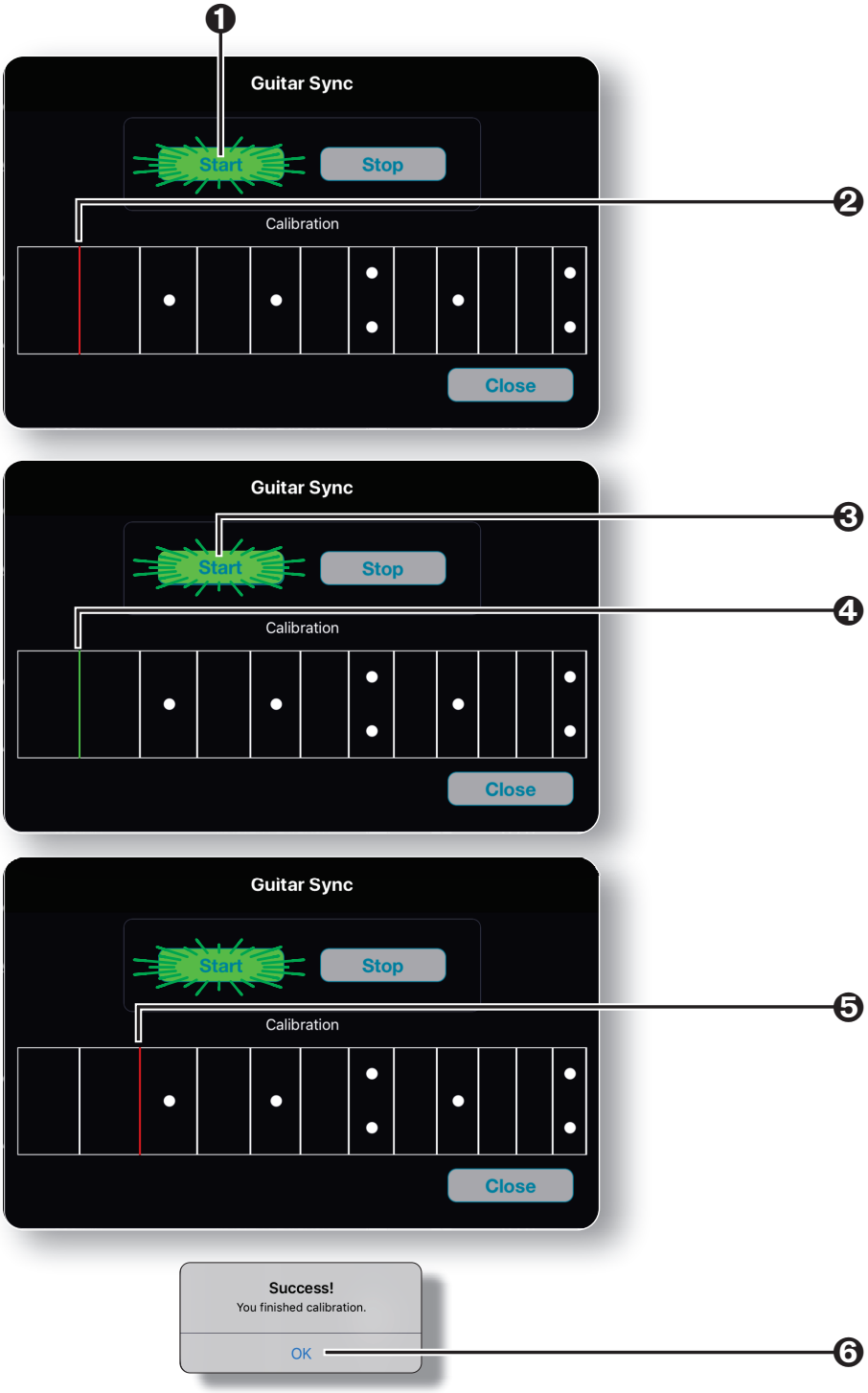
Use **Calibration** to let the OMB App identify the frets so it can interpret where your fingers push down on the strings.

Calibration is used every time you change your guitar strings.

While you can sync your guitar by bridging strings with your first finger, it is much easier to use a capo.

Follow the instructions below to use **Calibration** in the **Settings** menu to calibrate your guitar. Make sure that your OMB-powered guitar is on and linked to the OMB App.

First, tap **Calibration** from the **Settings** menu. The **Guitar Sync** window displays a representation of a guitar neck to guide you through the calibration process.



❶ Tap **Start**.
❷ The first fret turn red…
❸ …and the **Start** button begins to blink.
❹ Put a capo on the guitar to bridge the first fret of your guitar. When the first fret has been calibrated it turns green.

5. The calibrated fret returns to its original color and the next fret turns red. Place the capo on that fret until it turns green.
6. Continue this process until you see the Success window. Tap **OK** to return to the **Settings** menu.

And that's it. You're ready to go.

Playing in *Chord* Mode

Chord mode lets you use your fingered chords to activate your chosen themes. Themes typically include background orchestration with a mix of up to five instruments, according to the chords you finger and the fill you chose. There is no need to strum; your OMB guitar senses the chord as you press the strings against the frets.

The OMB App comes preinstalled with a number of themes in many different music genres. You may start by using the default theme (A).

Finger through a few chords on your guitar to get a feel for how the OMB App identifies the chord (B) and responds to your fretwork.

Before you play—or while you are playing—you can decrease or increase the tempo (G) and lock the tempo (D) so it stays uniform when you change to a different theme. Either use the controls on either side of the present tempo, or tap your desired tempo, slow or fast, so the OMB App will pick it up.

In the **Playback Control** pane (E) you can adjust the volume of any of the background instruments (F) by moving the slider, or mute one or more instruments by tapping the instrument icon (G). You may also use the **Master Playback** slider (M) to decrease or increase the volume of all playback instruments simultaneously. The **Master Level** dial (M) controls the volume of the device where the OMB App is installed.

To begin playing you may:

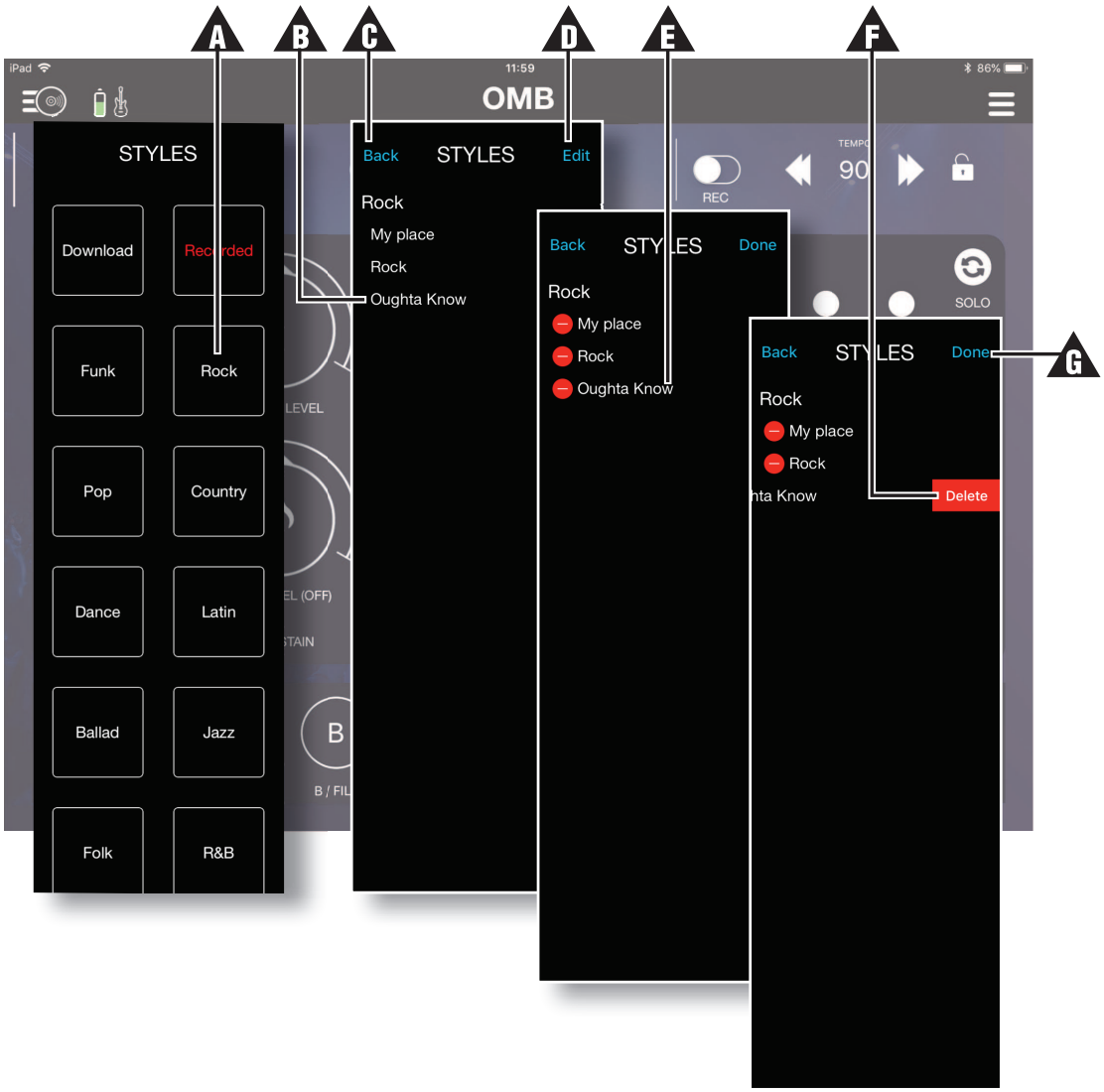
- Tap **Start** (A)
- Tap **Sync** (I)
  - to begin playing the theme when you form the first chord, or
  - to synchronize the beat if you find yourself half-a-measure off
- Tap **Intro** (I) to begin playing with a musical introduction (if it is included in your selected theme)

While playing you may change the fill by tapping one of the four fill buttons (K).

When you have completed the piece you may either tap **Start** (A) again or **Outro** (J) to give a graceful end to your number (if it is included in your selected theme).

Once you've gotten used to the default theme, stretch your wings by trying out one of the installed themes, or download a new one.

First, open the **Styles** menu (O).

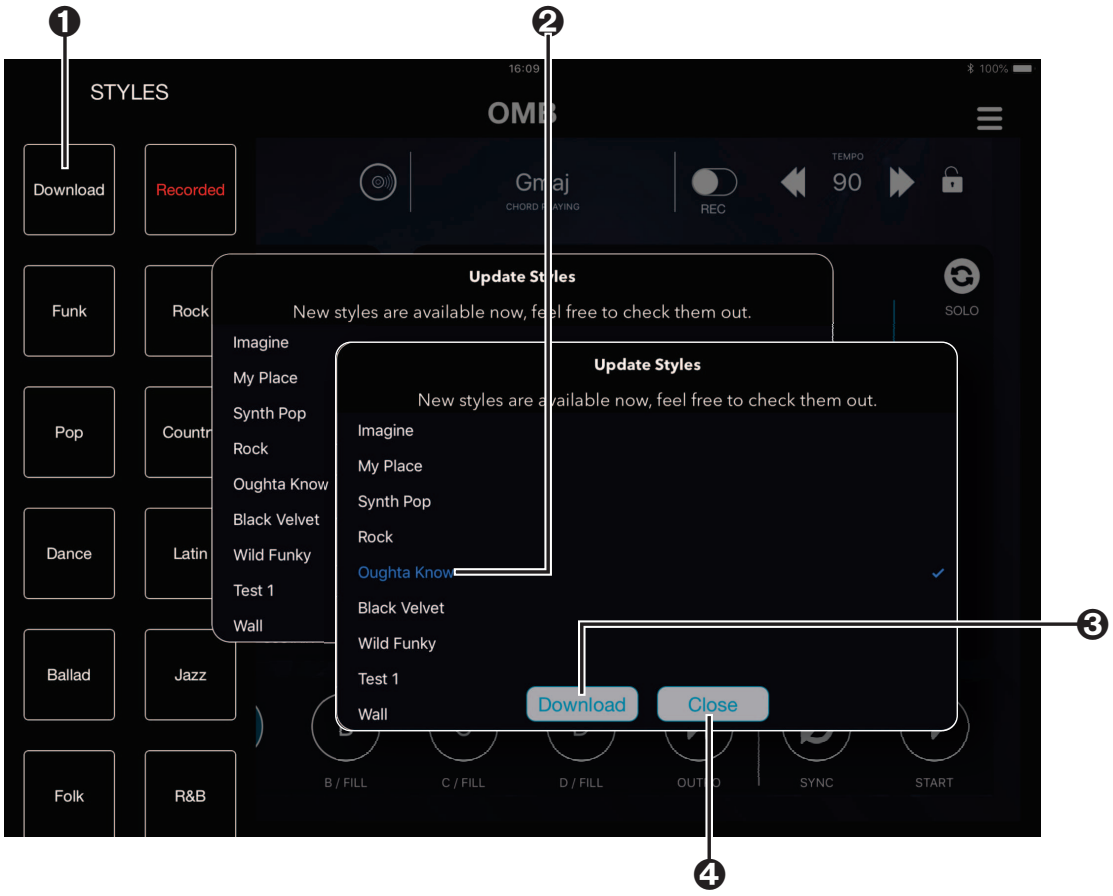


When you tap the **Styles** menu scroll through the installed musical genres and tap one to see what styles are included (A). Tap one of the styles (B) to return to the main screen.

If you want to return to the **Styles** menu tap to choose a different genre tap **Back** (C).

If you no longer want to use a particular style in the genre tap **Edit** (D). All of the themes appear with a red minus tag. Tap the tag to mark it for deletion (E) and then tap **Delete** (F) to remove it. Tap **Done** (G) to confirm the deletion or Back (C) to cancel and return to the **Themes** flyout.

You can also download additional styles as follows.



❶ Tap **Download** in the **Styles** menu.
❷ Scroll through the available styles and select those you want to download.
❸ When you have finished your selection tap **Download**. When the download is complete the style names you selected are colored green.
❹ Tap **Close** to return to the **Styles** menu.

More styles are available all the time. Check back often to see what other styles you can download.

Playing in *Solo* Mode

Solo mode allows you to play lead against a chord that changes as you form them. You can change the sound of your solo to a range of instruments or a choir of voices.

You may change from *Chord* mode to *Solo* mode by pressing the OMB **SET** button once, or, in the OMB App, by tappting **Solo Level** (A). Now the OMB App responds to individual notes, or chords, using the last selected voice.

To change the solo voice tap **Solo** (B) to flip the **Playback Control** panel to the **Local Instruments for Solo Mode** panel (C).

Swipe the panel to view additional instrument options.

Tap any of the local instruments to change the voice of your solo, or press on an instrument (D) until it flips to the **Instrument Varieties** panel. Tap **+** (E) to explore additional varieties available for the OMB App, or tap one of the available varieties (F) to select it and return to the **Local Instruments** panel.

Turn on **Sustain** (G) to have the OMB App play a continuous chord, in your selected voice, while you play a solo lead.

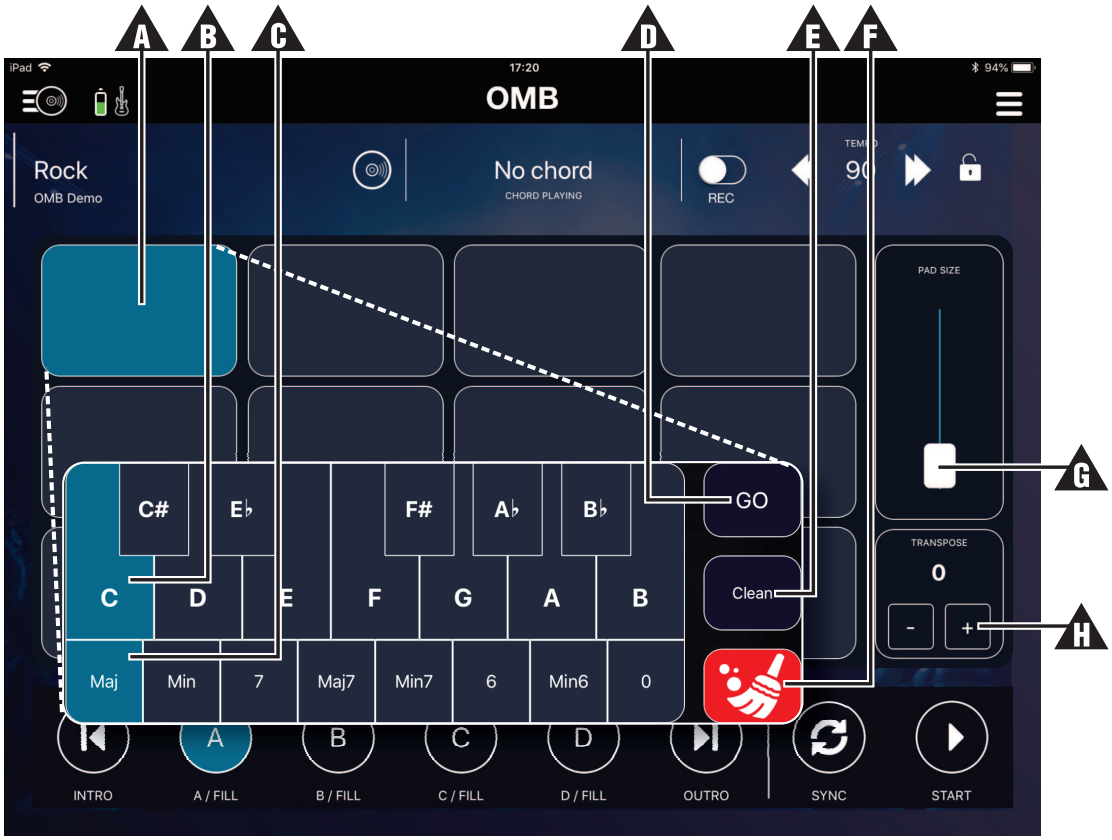
You may change from *Solo* mode to *Chord* mode by pressing the OMB **SET** button once, or, in the OMB App, by tapping **Solo Level** (A) to turn it off.

Playing in Pad Mode

Use *Pad* mode to make chord changes from the OMB App, rather than the guitar, when playing in *Chord* mode. This might be helpful for a flute player, for example, who might want a background to a solo.

And if you have the OMB Foot Pedal, you can assign chord changes to the buttons. See *Pedal* on page 55 for more information.

First open the **Settings** menu and tap **Pad Mode** to see the screen below.



Press and hold one of the pads (A) to open up the **Virtual Keyboard** screen, then tap the chord (B) and modulation (C) for the pad. Tap **Go** (D) to accept the pad assignment.

If you have a chord assigned to the pad have selected tap **Clean** (E) to remove the chord from that pad. Tap the **Delete** button (F) to remove all pad assignments.

You may use the **Pad Size** slider (G) to change the pad matrix from the default 3X4 to 4X5, 5X6, or 6X7.

If you assign a chord to a pad on a dense matrix, the OMB App remembers your choice even if you return to a smaller size.

Once you've assigned chords, exit **Pad** settings. Put the OMB App into *Chord* mode, select a theme, and adjust the tempo, instrumentation, and volume levels to your liking. Then open the **Menu** flyout and tap **Pad Mode** to see your chord assignments, and start playing.

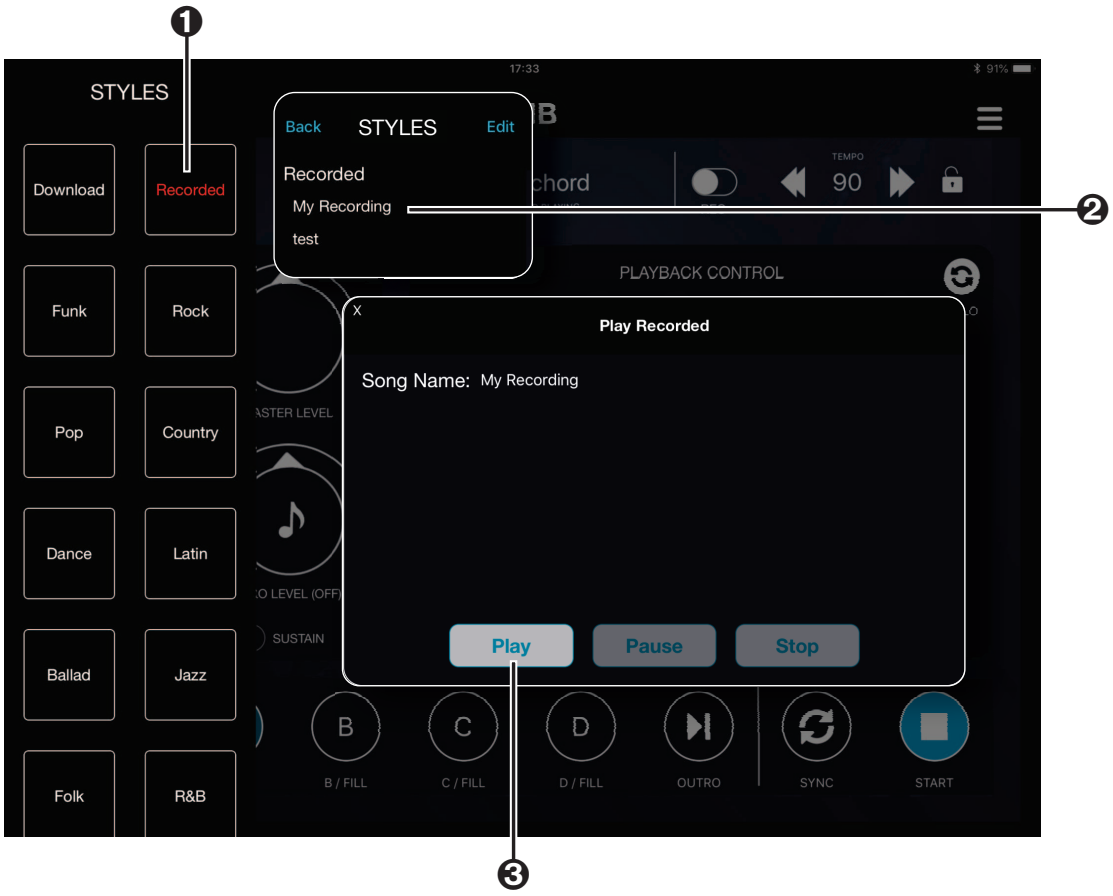
❶ Tap your starting chord…
❷ …the theme intro…
❸ …and the starting fill.
❹ Then tap **Start**. Change chords and fill patterns to suit your music.
❺ You may transpose your entire chord set, up or down, and as many steps as you want, between bars. When you next press a tab the entire chord set is transposed as you modified it.
❻ When your song is finished, tap the **Outro** button, or **Start** to end.

Recording using OMB

You can use your OMB guitar and OMB App to record a short passage or an entire composition so you can use it for a background for a solo.

❶ Move the **REC** switch to on.
❷ When you see the time-elapsed counter, **Save** icon, and the red **REC** button, set everything up for your recording, such as the mode, tempo, and theme.
❸ When you are ready tap **REC**.
❹ The elapsed time counter begins running. When you are finished tap **REC** again.
❺ Tap the **Save** icon…
❻ …give the recording a name and tap **OK** to save it. Or tap **Cancel** to discard your recording.

Once you have completed your recording you can play it back like this.



❶ Open the **Theme** menu and tap the **Recorded** genre.
❷ Select your recorded theme.
❸ Tap **Play** to hear your recording. Once the recording has started you may **Pause** the playback or **Stop** it.

Shutting Down

When you are finished making music exit the OMB App, and five minutes later your OMB guitar and OMB Foot Pedal will shut down automatically. The OMB App remembers all of your **Pad** settings and the last solo instrument you used when you launch it again.

The OMB App does not go into sleep mode as long as it is open, so it won't quick on you in the middle of a long solo. If you want to take a break without draining your device's battery, press the OMB guitar **Set** button, and the **On/Off** button of the OMB Foot Pedal for about ten seconds until both red and green LEDs turn off.

The OMB Foot Pedal

The OMB Foot Pedal connects to your OMB App via Bluetooth, enabling you to control almost any feature on the app completely hands-free. It includes legs that you can attach to set it at a comfortable angle. Super useful, whether you're recording or playing for an audience.

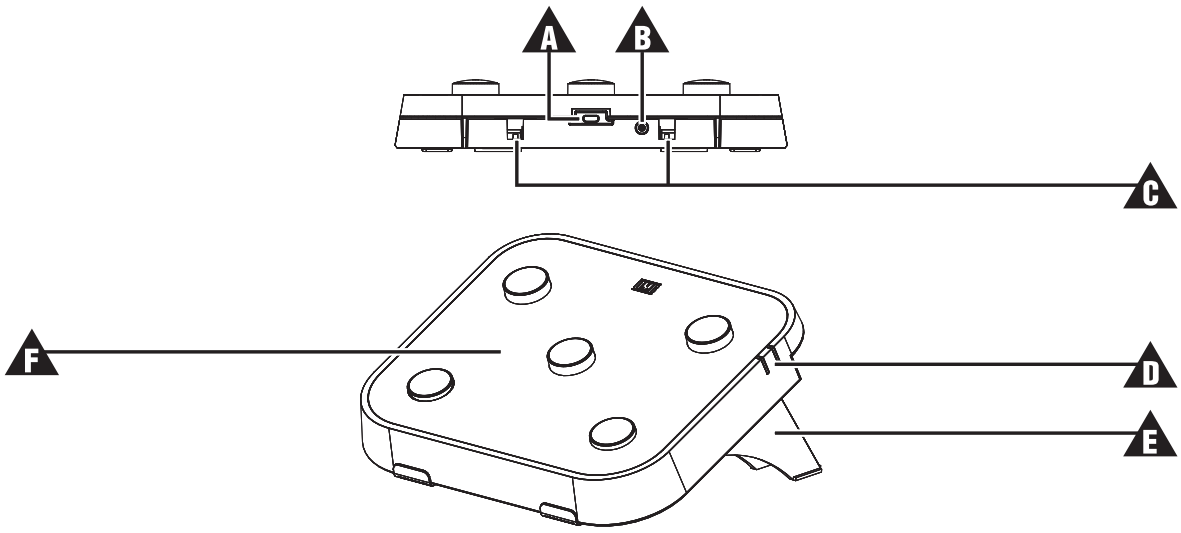
The OMB Foot Pedal has the following features:

- Five programmable buttons
- No latency
- Daisy-chain up to four pedals

Unpacking the OMB Foot Pedal

The packaging of the OMB Foot Pedal includes the two legs to attach to make it comfortable to use.

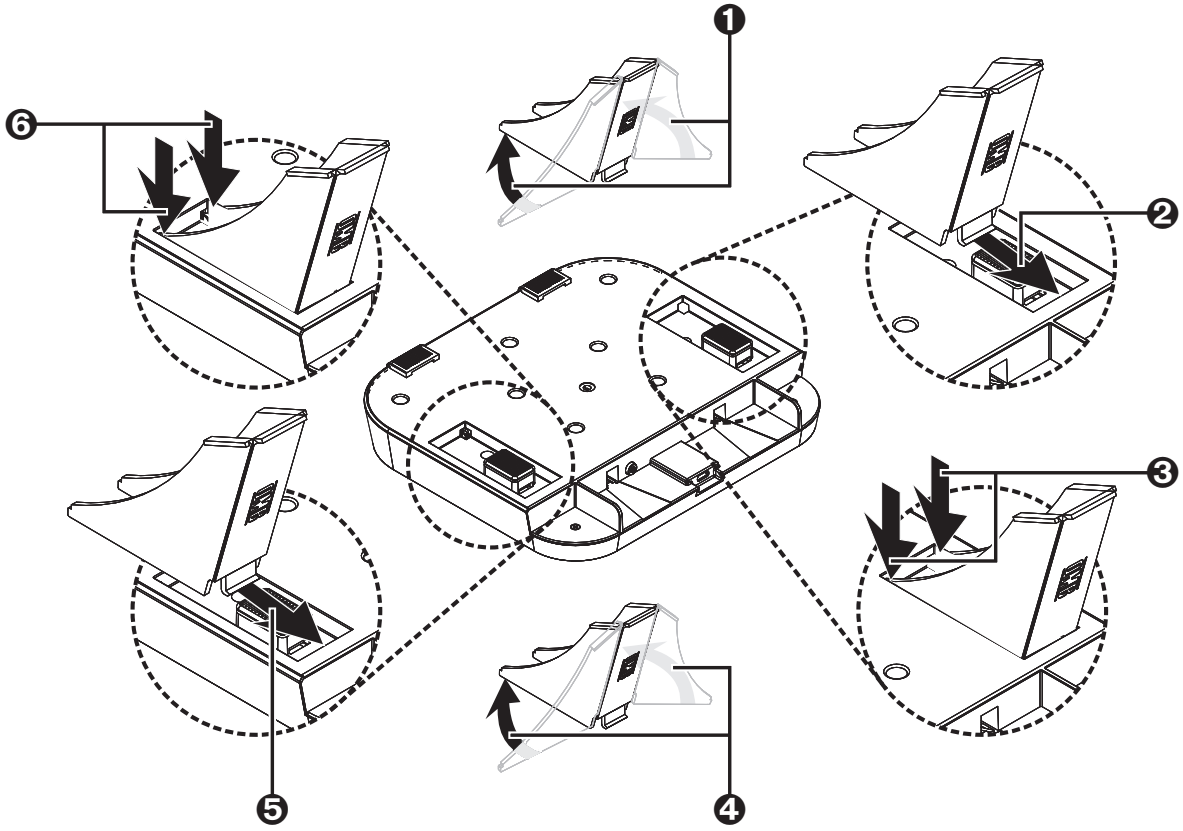
We recommend that you connect the OMB Foot Pedal to a power source—either a computer USB port or a standard USB charger—with a C-type USB cable so that, after you set it up, you can use it without being limited to the length of a wire.



- **A** USB-C cable connection
- **B** On/Off switch
- **C** RJ-type socket for daisy-chaining up to four OMB Foot Pedals
- **D** Indication LEDs
- **E** OMB Foot Pedal leg (one of two, attached)
- **F** Five programmable buttons

Attaching the OMB Foot Pedal Legs

While you can use the OMB Foot Pedal flat on the floor, most guitarists find it more comfortable to attach the legs to give it a convenient angle. To attach the legs first turn the OMB Foot Pedal upside down and place it on a table, then continue as follows:



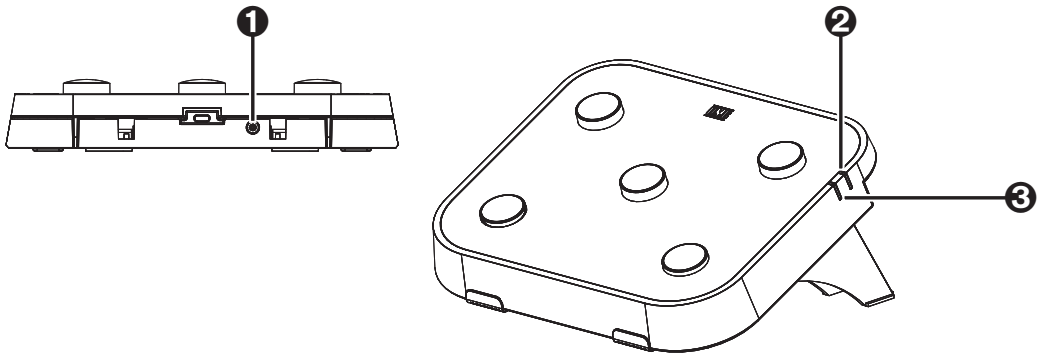
1. Take one of the legs and fold the two side-wings as shown, behind the OMB logo.
2. Push the front of the leg into the rectangular indentation until the catch enters the lock.
3. Push the back section of the legs downward until both sides click into place.
4. Take the second leg and fold the two side-wings as shown, behind the OMB logo.
5. Push the front of the leg into the rectangular indentation until the catch enters the lock.
6. Push the back section of the legs downward until both sides click into place.

Bluetooth Pairing for OMB Foot Pedal

Now let's pair the OMB Foot Pedal with your tablet's Bluetooth.

You may use a C-type USB cable to connect your OMB Foot Pedal to the device where the OMB App is installed if you prefer not to use Bluetooth.

First turn on your OMB Foot Pedal.



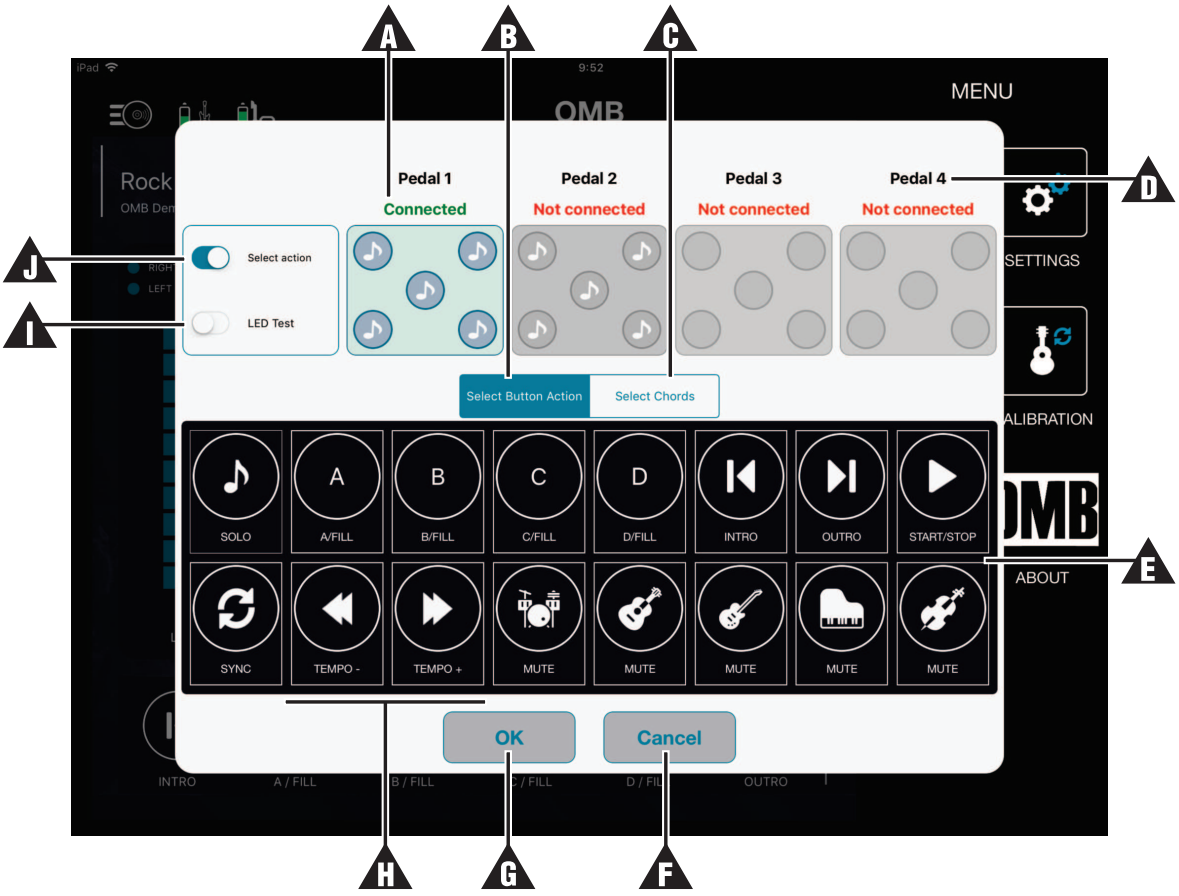
❶ Briefly press the On/Off switch at the back of the OMB Foot Pedal
❷ The red LED turns on…
❸ …and the green LED flashes about once a second.

Now turn on your iOS device and launch the OMB App.

Pedal

Now that you've paired your OMB Foot Pedal to the OMB App, it's time to sync the buttons to enhance your music.

First tap the **Settings** menu and select **Pedal**.

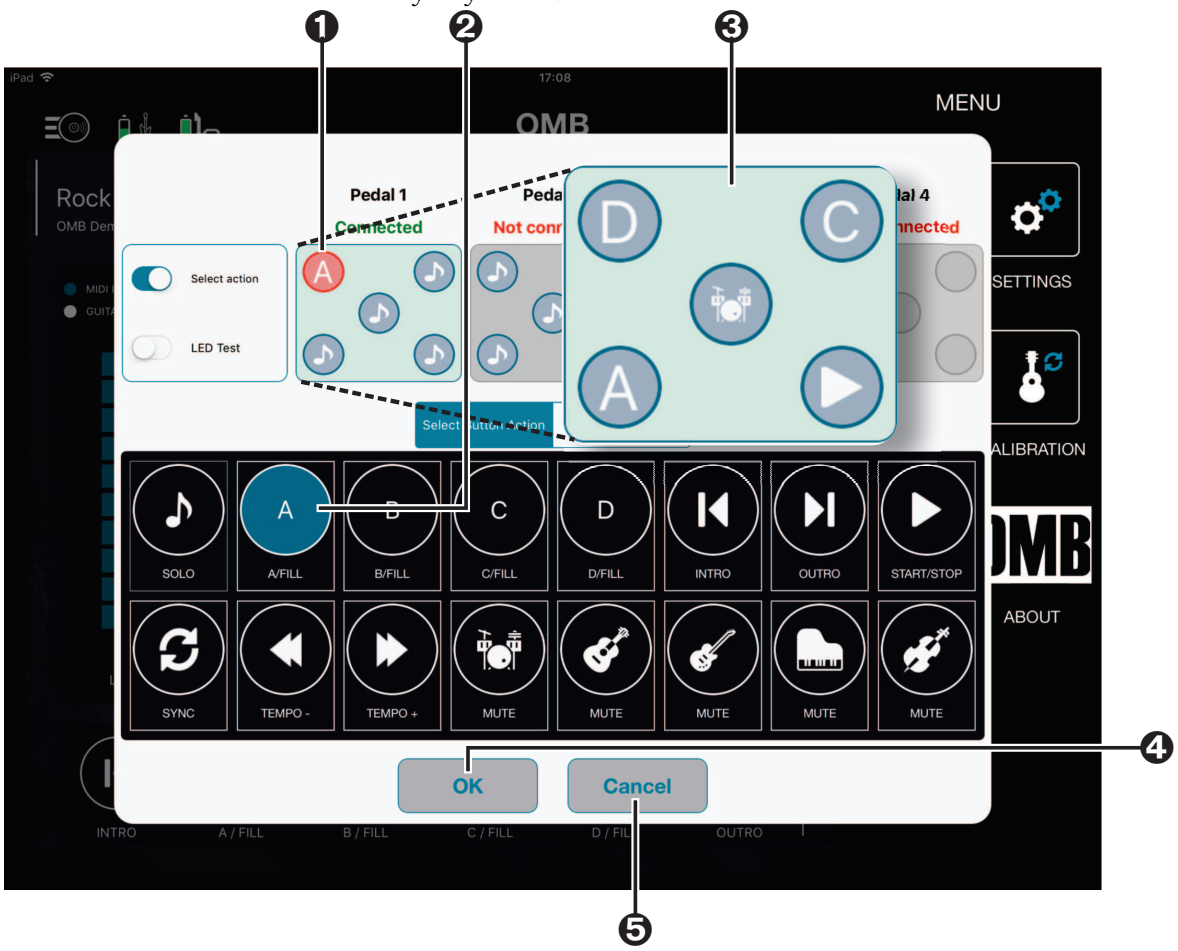


Screen Element	Explanation/Link
A OMB Foot Pedal Connection Status	*Playing in Chord Mode* (page 41)
B Select Button Status (selected)	Choose one of the *Chord* mode actions to associate with a pedal button. See *Playing in Chord Mode* on page 41 for more information.
C Select Chords (not selected)	Tap to associate chords you defined in *Pad* Mode with a pedal button for use in *Solo* mode. See *Playing in Pad Mode* (page 46) and *Playing in Solo Mode* (page 44) for more information.
D Daisy-chained OMB Foot Pedals	*Adding Additional OMB Foot Pedals* (page 58)
E Chord Mode Actions	See *Playing in Chord Mode* on page 41 for more information.

Screen Element	Explanation/Link
F Cancel	See *Playing in Chord Mode* on page 41
G OK	Save OMB Foot Pedal button assignments and exit **Pedal Sync**.
H Tempo Up/Down	Every tap increases/decreases tempo by 10 beats per minute
I LED Test	Use this switch to identify multiple OMB Foot Pedals when they have been daisy-chained. See *Adding Additional OMB Foot Pedals* on page 58 for more information.
J Select Action	(What does this do?)

Pedal Sync in *Chord* Mode

Follow the instructions below to sync your OMB Foot Pedal in *Chord* mode.

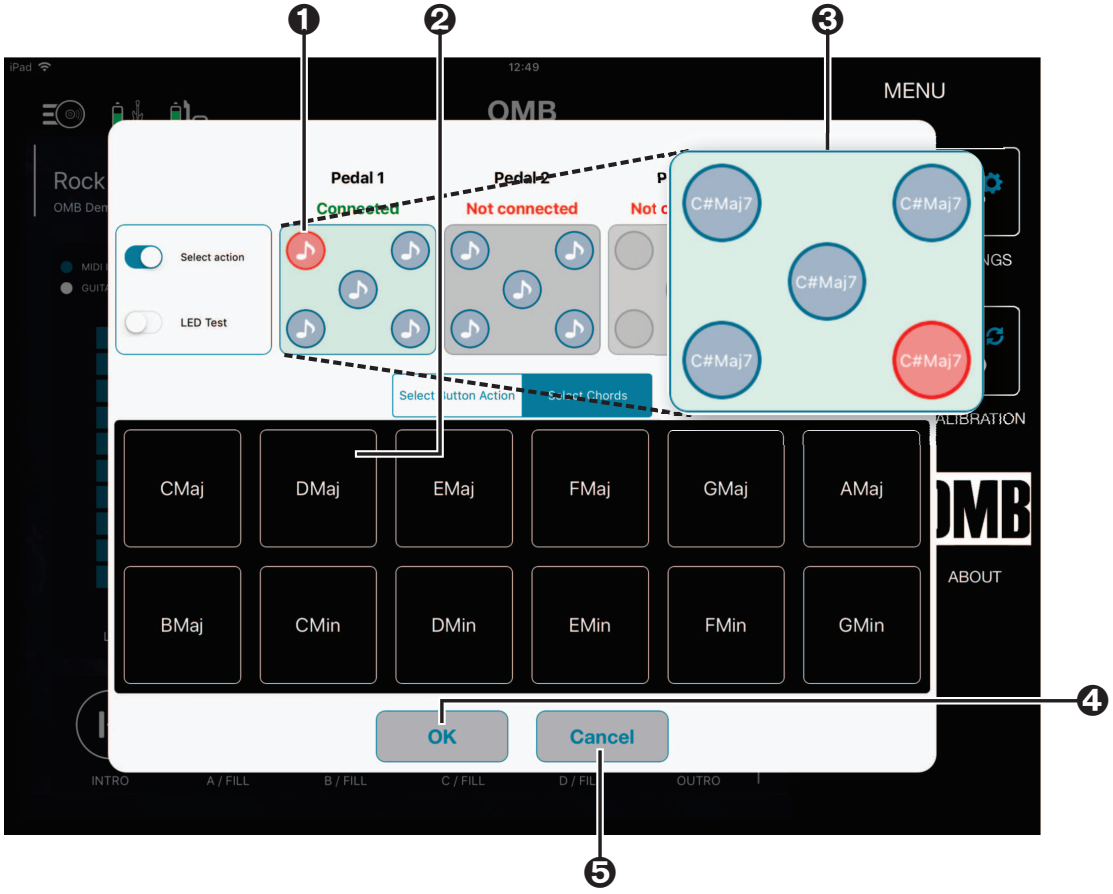


❶ Press one of the buttons in the connected OMB Foot Pedal until it is highlighted.
❷ Select an action. The button then displays your choice.
❸ Continue selecting actions that you would find most helpful. A typical configuration might include **Start/Stop**, three fills, and muting/unmuting drums in the currently playing fill.
❹ When you are satisfied with your selection tap **OK**…
❺ …or tap **Cancel** if you want to exit without saving.

Now exit from **Pedal Sync** and return to the main screen. Enter *Chord* Mode, choose a theme, and set a starting chord. If, as in the example above, one of the OMB Foot Pedal buttons activates start, put your foot down and begin. Otherwise tap **Start** and then start, changing fills, as using other actions, as the music dictates.

Pedal in *Solo* Mode

Follow the instructions below to sync your OMB Foot Pedal in *Solo* mode.



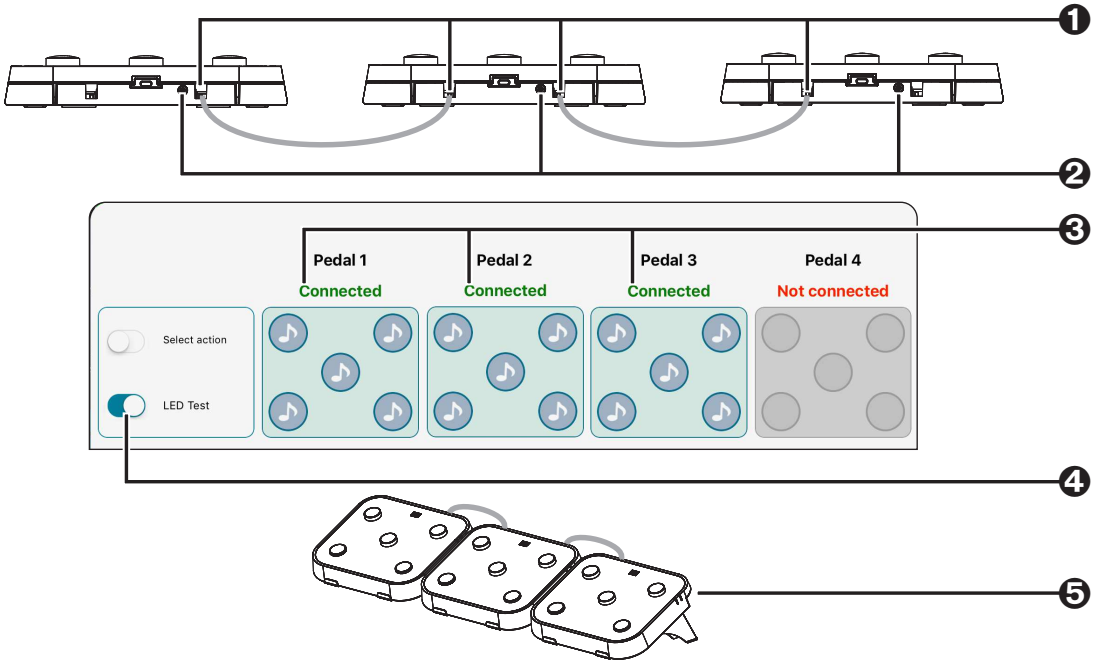
❶ Press one of the buttons in the connected OMB Foot Pedal until it is highlighted.
❷ Select a chord. The button then displays your choice.
❸ Continue selecting chords that you would find most helpful.
❹ When you are satisfied with your selection tap **OK**…
❺ …or tap **Cancel** if you want to exit without saving.

Now exit from **Pedal Sync** and return to the main screen. Enter *Solo* Mode and start playing, changing chords to your lead as the music dictates.

Adding Additional OMB Foot Pedals

You can connect up two four OMB Foot Pedals to give you twenty buttons to associate with different actions in *Chord* mode or chords is *Solo* mode. All you need is one length of standard telephone cables with RJ-type plugs for each OMB Foot Pedal you want to add.

In this example we are showing three OMB Foot Pedals.



❶ Connect additional OMB Foot Pedals, up to four, with a length of standard telephone cables with RJ-type plugs, as seen.
❷ Press the On/Off switch briefly on each OMB Foot Pedal to turn them on.
❸ After checking that your iOS device identifies all of the pedals, tap the **Settings** menu and select **Pedal Sync**. You should see all of the pedals you have linked with the telephone cable connected.
❹ Tap **LED Test** so you can identify which OMB Foot Pedal is **Pedal 1** and which is **Pedal 3**.
❺ Arrange the pedals in a convenient configuration according to the LED test identification. You may want to switch the order of the pedals so the arrangement fits your needs.

When you are done continue with *Pedal* (page 55) to assign actions for *Chord* mode and chords for *Solo* mode.

Troubleshooting

From time to time you may run into problems using your OMB guitar or accessories. If you don't find the answer here contact us at service@ombguitars.com.

Problem	Solution
I just changed strings and now the OMB App doesn't recognize any of my chords.	Whenever you change strings you must calibrate your guitar. See *Calibration* on page 38 for more information.
My OMB sometimes doesn't recognize my chord changes.	Probably some moisture or corrosion has accumulated on one or more of your frets. Loosen your strings enough to clean the frets carefully with fine steel wool. Be careful not to scrape the finish off of the frets.
I don't see some of the features described in the User Guide in the OMB App.	If you are using the OMB App on an Android tablet the feature you are looking for may not yet be available. Update the app when a new version becomes available.

Warranty

OMB‘s warranty obligations for OMB products are limited to the terms set forth below:

OMB. warrants OMB products against defects in materials and workmanship for a period of six months from the date of original purchase ("Warranty Period").

If a defect arises and a valid claim is received by OMB within the Warranty Period, OMB will (1) repair the product at no charge, using new or refurbished replacement parts, (2) exchange the product with a product that is new or which has been manufactured from new or serviceable used parts and is at least functionally equivalent to the original product.

If a defect arises and a valid claim is received by OMB after the first ninety (90) days of the Warranty Period, a shipping and handling charge will apply to any repair or exchange of the product undertaken by OMB.

When a product or part thereof is exchanged, any replacement item becomes your property and the replaced item becomes OMB‘s property.

This warranty does not apply: (a) to damage caused by accident, abuse, misuse, misapplication, or non-OMB products; (b) to damage caused by service performed by anyone other than OMB; (c) to a product or a part that has been modified without the written permission of OMB; or (d) if any OMB warranty label has been removed or defaced.

OMB

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