



PRECISION. POWER. PERFORMANCE.

## MOTORCYCLE AUDIO KIT INSTALLATION MANUAL

FOR 2014 - 2023 HD ROAD GLIDE AND STREET GLIDE MOTORCYCLES\*

\*Fits Limited 2024 Models: Road Glide® 3, Tri Glide® Ultra Classic®,  
Road Glide Limited, and Ultra Limited.



## **Congratulations, and thank you for choosing Wet Sounds® High Performance Audio Products!**

These audio kit systems are engineered for select 2014–2023 Harley-Davidson® Road Glide® and Street Glide® motorcycles to deliver powerful, high-clarity sound built to withstand weather, vibration, and long-distance riding.

The Front Speaker Kit forms the foundation of the system, while the Moto 6-G, Saddlebag, and Tour-Pak® Audio Kits expanding performance through seamless, plug-and-play integration. All components are fully marine-rated and require no third-party tuning when paired with the WS-DSP-X and the Wet Sounds DSP App.

This manual will guide you step by step to ensure a smooth installation and optimal audio performance.

Please take a moment to read the instruction manual before beginning your installation. This guide explains the benefits of the technologies developed by Wet Sounds and will help you understand the correct installation methods and proper use of this product.

If you have any questions or concerns, please contact a certified Wet Sounds dealer. You may also contact Wet Sounds technical support by dialing **1-877-WET-SPKR(1-877-938-7757)**.

### **!WARNING!**

We build all Wet Sounds products to play at high volumes for extended periods of time. Your ears, however, are not designed for high-volume listening. This product can easily generate sound levels that can permanently damage your hearing. We urge you to limit your exposure to very high-volume sound. You should familiarize yourself with your state and local laws governing audio system volume levels. A properly tuned and operated audio system will deliver years of enjoyment when used properly.

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# ADDITIONAL WET SOUNDS MOTORCYCLE AUDIO KITS

Learn all about our Motorcycle Audio Kits at [shop.wetsounds.com/motorcycle/](https://shop.wetsounds.com/motorcycle/)



## **WS-HAR-FSK**

Front Speaker Audio Kit

The **WS-HAR-FSK** Front Speaker Kit delivers powerful, clear audio that cuts through wind and highway noise. ZERO Series 6 speakers and the WS-SP 4100 amplifier produce clean, consistent sound at any speed, while the WS-DSP-X processor and app make tuning simple with model-specific profiles. Quick to install and built for long-lasting performance, this kit gives your Harley a strong, confident front-end sound presence.



## **WS-HAR-MGK**

Moto 6-G Audio Kit

The **WS-HAR-MGK** Moto 6-G Audio Kit delivers crisp, detailed sound to your lower fairings with bright, horn-loaded tweeters that cut through wind and weather. The grilles fit cleanly for a factory-style look, and installation takes just minutes with basic tools. It's a fast, high-impact upgrade that instantly elevates your bike's audio performance.



## **WS-HAR-SBK**

Front Speaker Audio Kit

The **WS-HAR-SBK** Saddlebag Audio Kit adds rich, dynamic sound from behind you, creating a fuller, more powerful audio experience. ZERO 6x9 speakers, paired with a dedicated two-channel amplifier, deliver depth and energy on every ride. Marine-rated construction and bulkhead connectors make saddlebag removal simple. With straightforward installation, the Front Speaker Audio Kit gives your Harley a stronger, more immersive sound presence.



## **WS-HAR-TPK**

Tour-Pak® Audio Kit

The **WS-HAR-TPK** Tour-Pak Audio Kit surrounds your passenger with rich, clear audio from ZERO 6 speakers and horn-loaded tweeters. Its fully formed pods are built to handle long miles and harsh conditions while maintaining a clean, integrated look. Quick to install and designed to work seamlessly with the Front Speaker Kit, this upgrade makes shared rides more memorable with fuller, more immersive sound.

# REQUIRED TOOLS

FOR 2014 - 2023

## HD ROAD GLIDE AND STREET GLIDE MOTORCYCLES\*

\*Fits Limited 2024 Models: Road Glide® 3, Tri Glide® Ultra Classic®, Road Glide Limited, and Ultra Limited.

### REQUIRED TOOLS

- 1/8" Allen wrench (windshield – may vary)
- 3/16" Allen wrench
- 3mm Allen wrench
- T25 Torx driver
- 1/16" drill bit
- 5/16" drill bit
- 2" hole saw (included)
- Jigsaw
- File or deburring tool
- Flush cutters
- Flathead screwdriver
- 1/2" socket (fuse box bolts)
- Zip ties
- #2 Phillips screwdriver
- 10mm socket

### ESTIMATED INSTALL TIME

- 4-6 Hours (Full System)
- 2-3 Hours (Front Speaker Kit)

### SAFETY NOTICE

- Disconnect battery before beginning installation
- Support fairing and headlight during removal to prevent damage
- Use caution when cutting saddlebag lids
- Ensure wiring is secured away from moving components and belt drive

Watch the Wet Sounds Harley Audio Kit Installation Video on YouTube:

<https://www.youtube.com/watch?v=0G0LzDeN-tc>



## SECTION 1: FAIRING REMOVAL

### 1. Remove Windshield

- Remove four front screws
- Set hardware aside



### 2. Remove Fairing Top Panel



### 3. Remove inner fairing bolts

- Remove two lower T25 Torx bolts inside fairing
- **Do NOT** remove upper vent bolts



### 4. Remove Factory Speaker Grilles

- Pry from inside
- **Do NOT** pry from outside  
(hook tab located there)



### 5. Remove Marker Lights

- Remove two 3/16" Allen bolts per side



**6. Disconnect Turn Signal Harnesses**  
(Located at top of fairing)



**7. Remove Fairing**

- Remove remaining T25 Torx bolts next to speakers
- Support fairing while removing
- Pull forward gently and remove



**SECTION 2:**  
**HEADLIGHT & RADIO REMOVAL**

**1. Remove Headlight**

- Disconnect factory harness
- Remove four 3/16" bolts

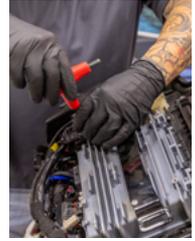


- Support headlight while removing



## 2. Remove Factory Radio

- Disconnect main harness
- Remove four 3/16" Allen bolts



- Lift radio out

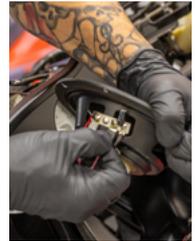


## SECTION 3:

### FACTORY SPEAKER REMOVAL & POD MODIFICATION

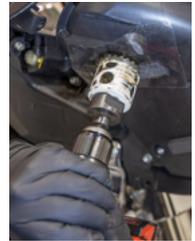
#### 1. Remove Factory Speakers

- Remove four T25 Torx bolts per speaker



#### 2. Modify Speaker Pods

- Apply provided template (left/right specific)
- Align with body lines and mounting indent



- Use two-inch hole saw to provide clearance for Zero 6 speaker magnet
- Remove template and install sound dampening material



### 3. Install New Speakers

- Install connectors  
Note: Larger Harley factory wire = Positive
- Trim plastic nub if needed for flush fit



## SECTION 4:

### AMPLIFIER BRACKET & AMP INSTALLATION

#### Amplifiers Included:

- WS-SP 4100 (4-Channel) for Front Speaker Kit
- WS-SP 2150 (2-Channel) for Saddlebag Audio Kit

### 1. Install Foam Isolator Pads

- Place in amplifier bracket grooves



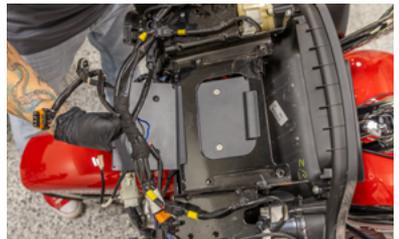
### 2. Mount 4-Channel Amplifier

- Mount to bracket using 3mm Allen bolts
- Screws mount directly to bottom of amp
- This bracket installs under OEM radio



### 3. Install Bracket in Bike

- Mount beneath factory radio location



#### 4. Install 2-Channel Amplifier

- Mount after bracket is secured



#### 5. Reinstall Factory Radio



### SECTION 5:

#### T-HARNESS & DSP CONNECTION

##### 1. Install T-harness

- Plug inline with OEM radio harness
- Secure excess wiring



##### 2. Connect Outputs

- From T-harness:  
Front speakers > Lowers > Rear speakers  
(If no lowers installed, secure harness)



##### 3. Route Power & 6x9 Harness

- Run through neck of motorcycle



#### 4. Connect Amplifiers

- Smaller plug = 2-channel
- Larger plug = 4-channel
- Unused output = Subwoofer (future expansion)



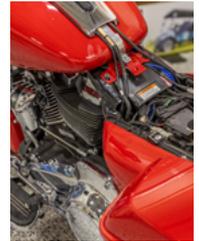
#### 5. Plug In Output for DSP Harness



### SECTION 6:

#### BATTERY & TANK REMOVAL

##### 1. Remove Bike Seat



##### 2. Remove Gas Tank

- Disconnect fuel pump harness
- Disconnect drain lines
- Disconnect fuel line

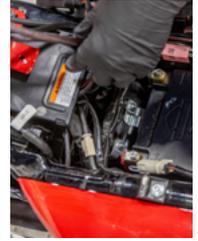
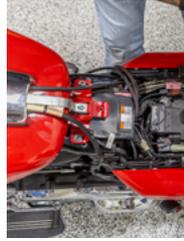


- Remove (4) rubber caps and bolts
- Lift tank carefully



### 3. Access Battery

- Remove battery cover
- Connect:
  - + Positive terminal
  - Negative terminal

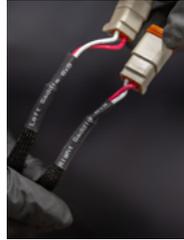


- Tuck fuse holder in front of battery



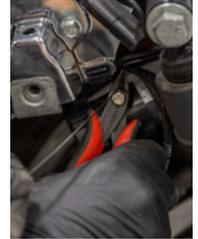
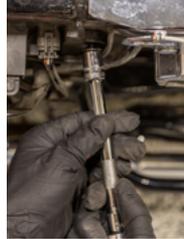
## SECTION 7: SADDLEBAG HARNESS ROUTING

### 1. Remove Saddle Bags & Side Covers



### 2. Left Side Routing

- Loosen fuse box (3 half-inch bolts)
- Route harness behind fuse box
- Zip tie to factory harness



### 3. Reinstall Side Covers & Battery Cover



## SECTION 8: SADDLEBAG BULKHEAD INSTALLATION

### 1. Apply Template

- Adjust slightly if vent interference exists
- Must be on flat surface



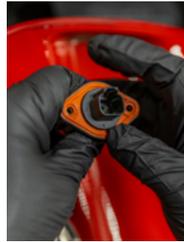
### 2. Drill Holes

- Two small holes: 1/16"
- Center hole: Use included hole saw



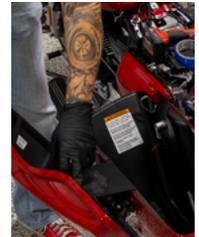
### 3. Install Bulkhead Connector

- Mount with tab facing up
- Reinstall saddle bags
- Plug in harness



## SECTION 9: SADDLEBAG LID 6X9 INSTALLATION

### 1. Remove Bag Tether

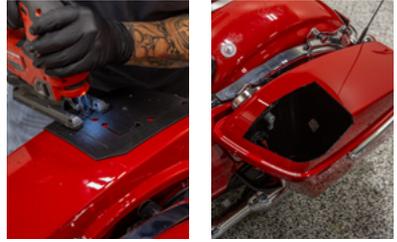


### 2. Apply Template

- Nest against slip
- Drill pilot hole
- Drill 5/16" holes in rounded sections
- Use jigsaw to cut along inside line



- Drill 5/16" holes in rounded sections
- Use jigsaw to cut along inside line



### 3. Smooth Edges

- File and deburr



### 4. Install 6x9 Assembly

- Long screws = Clamshell & grille
- Short screws = 6x9 speaker



- Speaker plug faces rear of bag

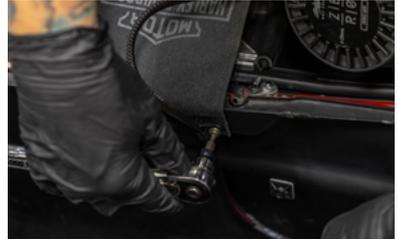


### 5. Reinstall Bag Tether



## 6. Secure Harness

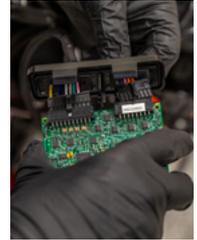
- Clean surface with provided alcohol wipe
- Install adhesive zip tie mounts (3 per bag)
- Secure wiring



## SECTION 10: DSP MODULE SETUP

### 1. Install DSP Module

- Install rubber grommets in panel
- Use flathead to seat grommets if needed



### 2. Bluetooth® Setup

- Power on bike
- Open Wet Sounds DSP App
- Scan for device

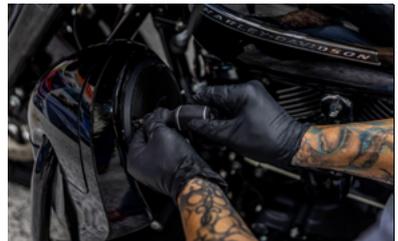


- Select system configuration.
- System will mute and reboot once configured
- Select "Lock Down" to save settings



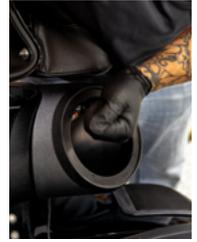
## SECTION 11: LOWER FAIRING (MOTO GRILLE) INSTALL

- Install lower fairing speakers
- If no OEM harness present, use supplied spade connectors



## SECTION 12: TOUR PACK POD INSTALL

- Pods replace OEM Harley units
  - If no pre-drilled holes, use pod as template
  - Drill from backside
  - If hand controls present, use provided templates
- 
- Connect speakers (spade terminals if non-OEM)



# STREET GLIDE INSTALLATION GUIDE

## FOR 2014–2023 HARLEY-DAVIDSON® STREET GLIDE

**Note:** This procedure differs from the Road Glide installation primarily in amplifier rack mounting location.

### Key Differences: Street Glide vs Road Glide

- Amplifier rack mounts on top of the factory radio
- Fairing disassembly differs (batwing style)
- Inner fairing speaker pods must be removed
- Use the Street Glide-specific grille

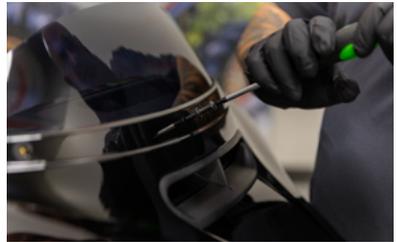


## SECTION 1:

### FAIRING DISASSEMBLY

#### 1. Remove Windshield

- Remove windshield hardware
- Set hardware aside



#### 2. Remove Fairing Top Panel



#### 3. Remove Inner Fairing Speaker Pods

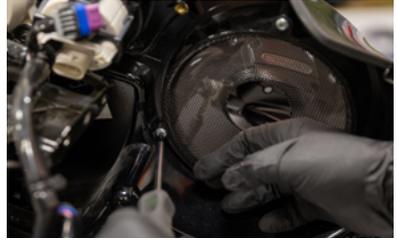
- Remove mounting hardware securing inner speaker pods
- Carefully remove pods from fairing



## **SECTION 2:** **SPEAKER & GRILLE INSTALLATION**

### **1. Install Street Glide Grille**

- Install the Street Glide-specific grille into the fairing
- Ensure proper alignment and secure mounting



### **2. Remove OEM Speaker**

- Disconnect factory wiring
- Remove mounting hardware



### **3. Install Wet Sounds ZERO Series Speaker**

- Connect speaker wiring (observe polarity)
- Secure speaker into pod
- Reinstall pod into fairing



## **SECTION 3:** **AMPLIFIER RACK INSTALLATION** **(STREET GLIDE SPECIFIC)**

### **IMPORTANT DIFFERENCE**

On Street Glide models, the amplifier rack assembly mounts on top of the factory radio. The amp rack mounting location differs from Road Glide models, where the rack mounts underneath the radio.

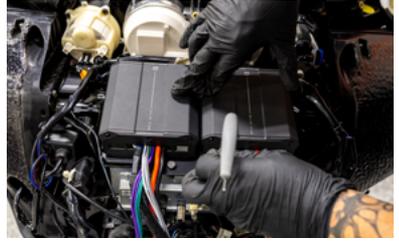
### **1. Assemble Amplifiers to Amp Plate**

- Install foam isolator pads
- Mount 4-channel amplifier
- Mount 2-channel amplifier (if applicable)
- Use supplied 3mm Allen hardware
- Screws mount directly into bottom of amplifiers (Amplifier assembly process is identical to Road Glide)



## 2. Mount Amp Rack

- Position assembled amp rack on top of factory radio
- Secure per mounting instructions
- Ensure clearance for wiring and harness routing



## 3. Connect T-Harness & DSP

- Installation procedure is identical to Road Glide
- Connect T-harness inline with OEM radio
- Route power and speaker harnesses
- Secure excess wiring



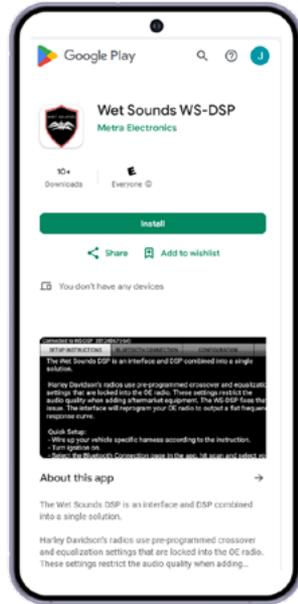
## Final Notes for Street Glide Install

- Confirm amp clearance before reassembly
- Ensure wiring does not pinch when reinstalling fairing
- Verify DSP configuration before final assembly

# WET SOUNDS WS-DSP APPLICATION CONFIGURATION GUIDE

Download the Wet Sounds DSP App (Wet Sounds WS-DSP) from the Google Play store.

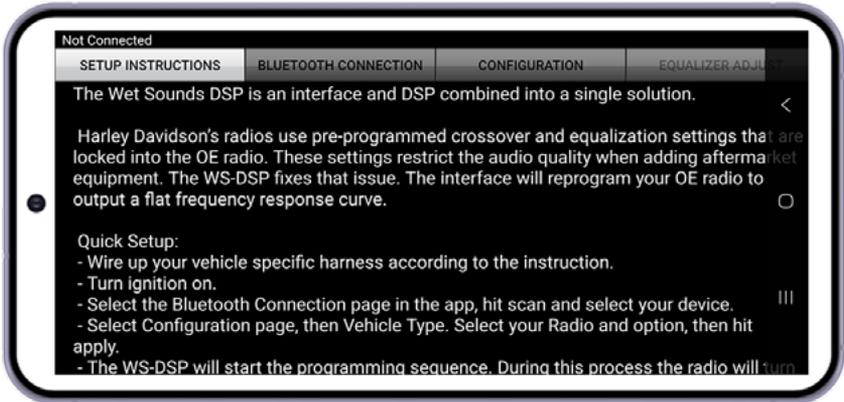
Once installed on your device, Initiate the app.



**WS-DSP App Link:** [https://play.google.com/store/apps/details?id=com.ckt\\_works.WS\\_DSP&pcampaignid=web\\_share](https://play.google.com/store/apps/details?id=com.ckt_works.WS_DSP&pcampaignid=web_share)

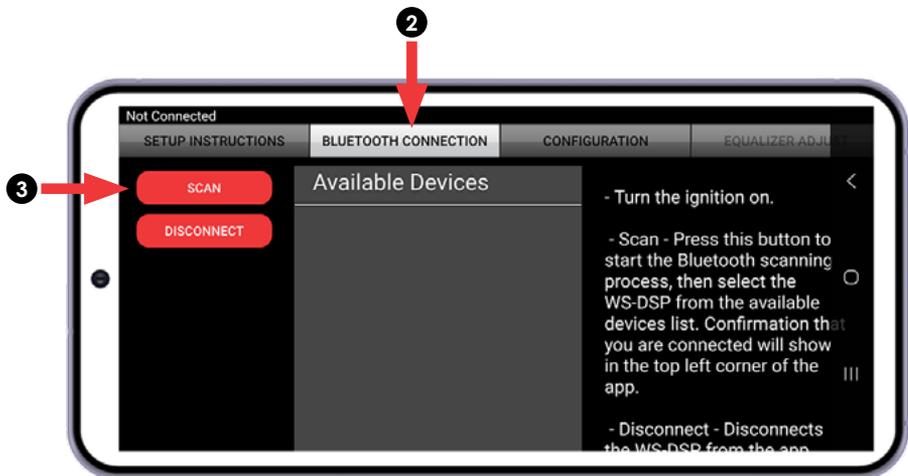
Or use this QR code to download the WS-DSP App:





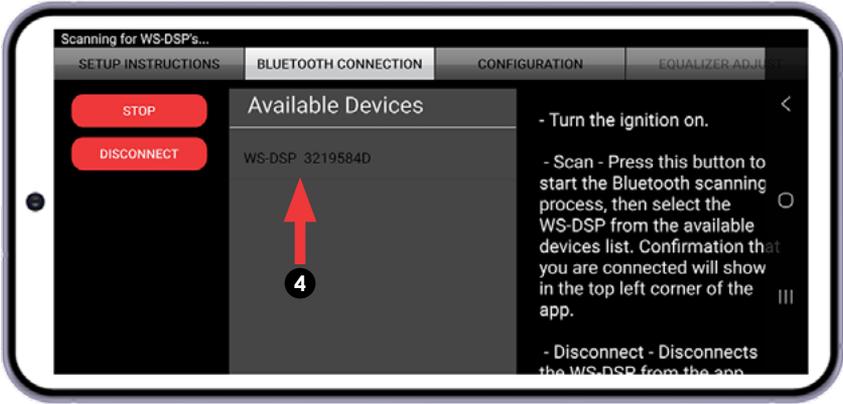
The initial interface home screen provides a brief introduction to the app and provides Quick Setup instructions on how to properly load audio profiles.

1. Turn the Harley Motorcycle ignition to the "On" position.

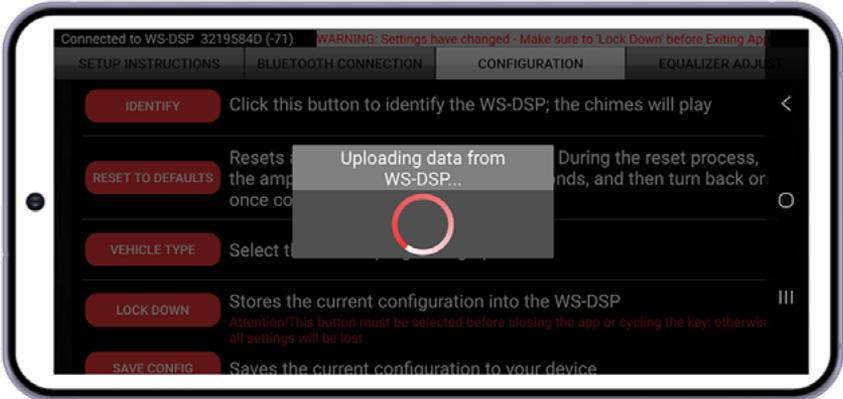
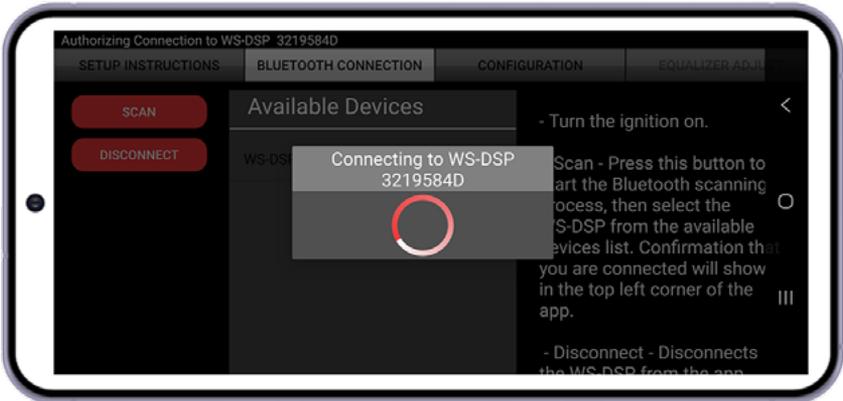


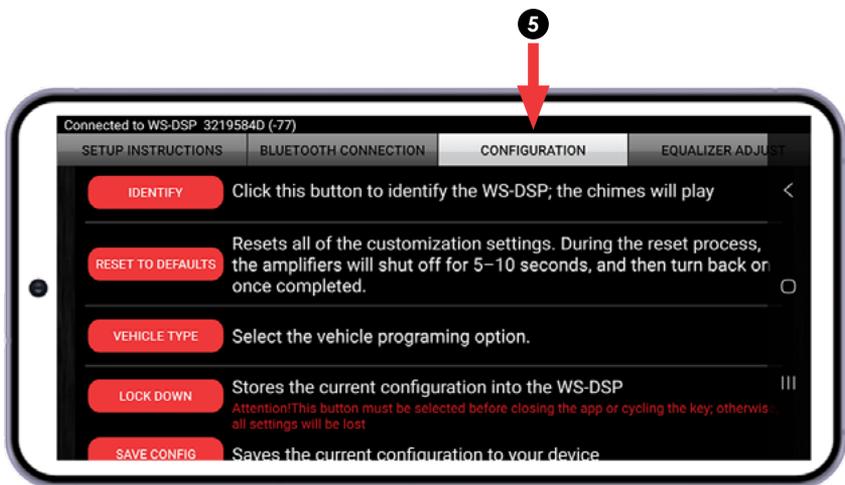
2. Select **BLUETOOTH CONNECTION** button.

3. Select **SCAN** to scan for your DSP.

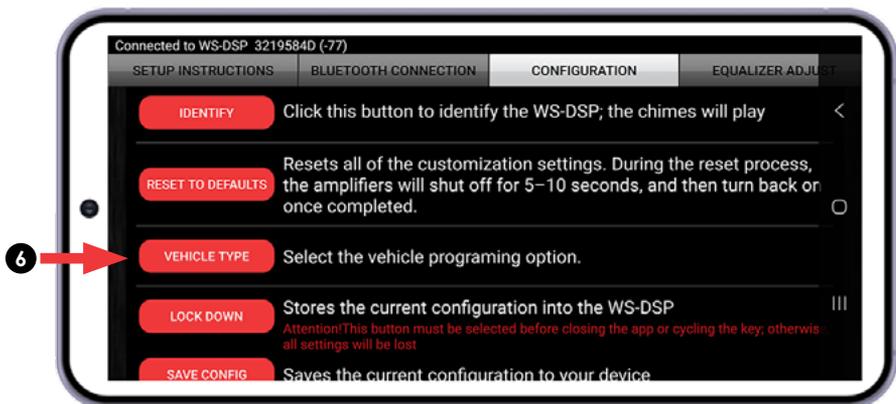


4. Select "WS-DSP XXX," where the XXX represents the serial ID of your DSP. The app will then connect to your DSP.

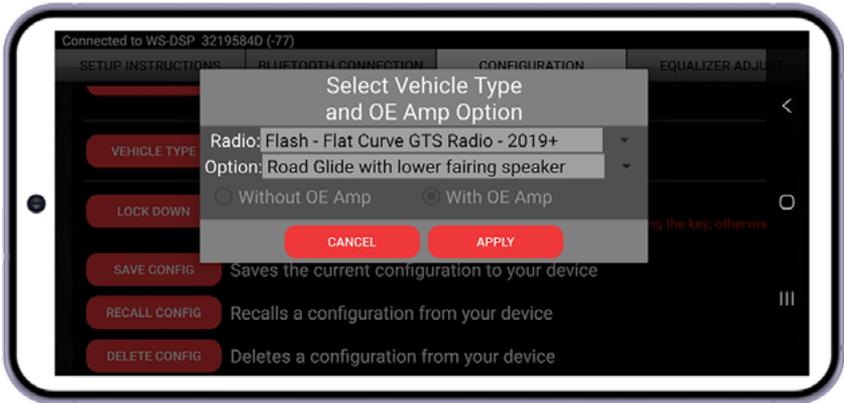




5. After connecting to the DSP, select the **CONFIGURATION** Tab.



6. Select the red, **VEHICLE TYPE**, button



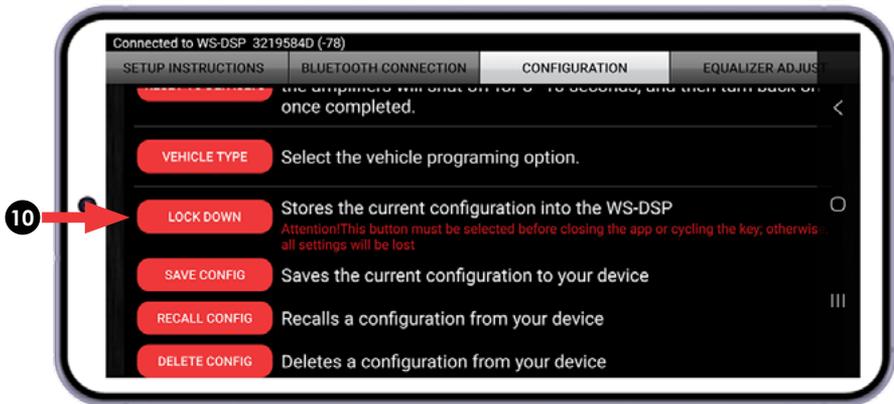
7. A window is displayed prompting you to make two selections. The first selection is for the radio, and the second is to choose the correct Wet Sounds Harley Motorcycle Audio Kit. For the first option, be sure that the RADIO option reads: **Flash- Flat Curve GTS Radio - 2019+**



8. For the second option, select the proper kit that is installed on your bike.  
 9. Once you have selected the proper kit, select **APPLY**.

The app will then install the proper tune-profile to your DSP.

**Repeat steps 5-9 for each installed kit.**



10. Once you have completed loading your kit profile(s), return to the **CONFIGURATION** page and select **LOCK DOWN** to save and confirm your DSP settings.

That's it! Your Wet Sounds Motorcycle Audio kit is fully installed! Enjoy freedom on the road and make each ride an experience!

## DSP 5-BAND EQ FEATURES



To edit EQ settings, begin by selecting the **EQUALIZER ADJUST** tab on the main horizontal menu:

1. Make the necessary adjustments to the EQ.
2. After finishing your adjustments, return to the **CONFIGURATION** tab and select **LOCK DOWN**. This action saves all changes made to the DSP and must be completed before power-cycling to ensure your settings are retained.



## **LIMITED WARRANTY**

### **What This Warranty Covers**

This is a "limited" warranty. This warranty covers any defect in materials and workmanship. This warranty only covers the original purchaser and is not transferable. This warranty is also only valid if the original purchase was made from an authorized Wet Sounds dealer.

### **How Long Coverage Lasts**

This warranty extends for 2 years from the date of purchase. It is recommended to REGISTER your warranty online within 45 days of purchase at [www.wetsounds.com](http://www.wetsounds.com) – click on "warranty registration."

### **What Is Not Covered**

This warranty does not cover fading or discoloration caused by exposure to sunlight or chemicals such as ammonia, household bleach, or any cleaning material that contains abrasive substances. Wet Sounds, Inc. does not cover the expense for removal or re-installation. Additionally, shipping TO Wet Sounds, Inc. must be paid for by the purchaser. This warranty is void and inapplicable if Wet Sounds deems that the product was abused or misused; including but not limited to damage caused by accident, mishandling, improper installation, removing the inline fuse on the power connection, negligence, normal wear and tear, excessive water or heat damage, freight/shipping damage, or products that have been disassembled by anyone other than Wet Sounds technical staff. Wet Sounds will not be responsible for any incidental or consequential damages, except to the extent provided (or prohibited) by applicable law. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

### **What Wet Sounds, Inc. Will Do**

Wet Sounds, Inc. will repair any part of your product that proves to be defective in materials or workmanship. In the event repair is not possible, Wet Sounds will replace the product in question. If it is deemed necessary Wet Sounds, Inc. will either replace the entire product with a refurbished unit or it will be replaced with a model that is similar in price if that model is no longer available. Labor costs and materials needed to complete this service will be at No Charge to the purchaser. Additionally, return shipping FROM Wet Sounds, Inc. to the purchaser will be paid for by Wet Sounds.

### **How To Get Service**

Contact Wet Sounds, Inc. either by phone (**877-938-7757**) or by email ([warranty@wetsounds.com](mailto:warranty@wetsounds.com)). A service representative will assist you in confirming that the problem you are experiencing is caused by a defective product and if that product is covered under warranty. The service representative will issue you a Return Manufacturer's Authorization (RMA) and other details to obtain service for your product.

**DO NOT RETURN YOUR PRODUCT WITHOUT THE PROPER RETURN AUTHORIZATION (RMA)**

### **Internet Warning**

Wet Sounds, Inc. products sold on any non-authorized web site or internet auction site are void of any and all manufacturer's warranty. Please contact Wet Sounds (**877-938-7757**) or visit our web site ([www.wetsounds.com](http://www.wetsounds.com)) for a list of authorized online sellers or to find an authorized installing retailer near you.

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