

## FOR ALL HARLEY ROAD KING MODELS 2014-CURRENT

For proper installation of the amplifier bracket on Harley Road King models 2014-current please follow this addendum. DO NOT mount the amplifier according to the basic installation manual on 2014-current Road King models.

**Failure to follow this installation addendum on all Harley Road King models 2014-current can result in damage to your motorcycle and/or speaker system.**

**WARNING:** Rider safety depends upon the correct installation of this amplifier bracket. Use the service manual for your year/model to complete this installation if needed. Service manuals for all year/models are available from Harley-Davidson. If the installation is not within your ability or you do not have the correct tools or manual, have a Harley-Davidson dealer perform the installation for you. Improper installation of the amplifier bracket could result in death or serious injury.

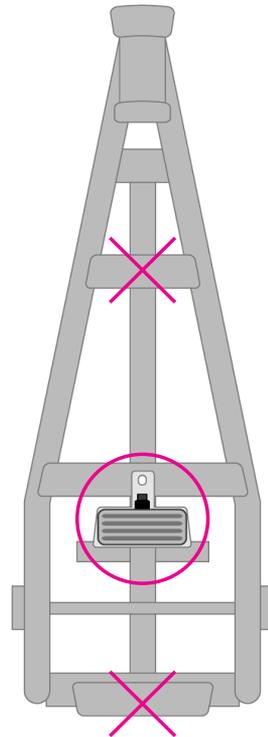
To prevent accidental vehicle start-up, which could cause death or serious injury, remove the main fuse before proceeding.

### INSTALLING THE AMP BRACKET:

1. Pay close attention to the amp and bracket placement in relation to your fender. Make sure that when the suspension is completely compressed there is clearance so the amp will not hit your fender. **This is VERY important.**

2. Refer to the illustration for proper placement on 2014-current Harley Road King models. The amplifier bracket should be mounted on the front of the A-frame at the **BOTTOM** cross-member facing down. Use the existing hole and provided bolt/nut to mount the bracket on the A-frame after attaching the amplifier to it.

3. Follow the basic instruction manual included with your kit to complete the installation after you have properly mounted the amp and bracket and have verified there is adequate clearance between the amp and fender.



**\*Proper mounting location  
for all 2014-current Harley  
Road King Models**



## Installation Instructions Amplified Handlebar Speaker Kits

**Note:** Audio quality is also dependent upon the device with which the amplifier is being used with. For best results Cycle Sounds recommends that you use an audio source with a high millivolt output such as an iPod or modern Smart Phone. Also adjusting the equalizer for the type of music being played will make your product work and sound better as well. See **STEP-10** for more information.

All Cycle Sounds products have a warranty period of 1 year from the date of original purchase. This warranty covers the cost of parts only for any needed repairs to, or replacement of, your unit for 1 year under normal usage. (Labor for removal or reinstallation of speaker kits and shipping cost are not covered by this warranty). Any product modified from its original manufactured form or installed improperly, shall not be covered by this warranty. This does not include modifications that are required for normal installation as outlined in the instructions below. Specifically, you should not cut any wires, remove quick connectors or cut/bend brackets or you risk voiding the manufacturer's warranty.

**Warranty Notice** - When returning products for warranty service a copy of the original sales receipt or proof of purchase must be sent in the package accompanying the product. Failure to do so will delay your warranty service.

**Warning:** The use of a radio, iPod, MP3 player, satellite radio, or any other device on a motorcycle increases the risk of riding. Riders must always pay attention while operating their motorcycles. Always make volume and tuning adjustments when motorcycle is not in motion. Failure to not do so could result in serious or fatal injuries.

Failing to follow all installation instructions and recommendations carefully can result in damage to your product, damage to your motorcycle, personal injury or even death.

## Parts List:

1. (2) **Bullet Speakers**
2. (2) **P-Clamps**
3. (1) **Mini Amplifier**
4. (1) **Amplifier Bracket**
5. (1) **Amplifier Power Harness**
6. (1) **Universal Handlebar MP3 Bracket**
  
7. (2) 1/4" x 20           **Amplifier Mounting Bolts (S.S.)**
8. (2) 5/16" x 24           **Speaker Bolts (chrome)**
9. (1) 5/16" x 18           **Button Allen Head Bolt (chrome)**
10. (1) 5/16" x 18 **Nylon Lock Nut (chrome)**
11. (1) **Large Flat Washer (chrome)**
  
12. (6) **Wire Ties**
13. (1) **Industrial Velcro (2" x 2")**
14. (1) **Blue Ring Grounding Terminal**
15. (1) **Red T Locking Connector**
16. (1) **Blue Male Connector**

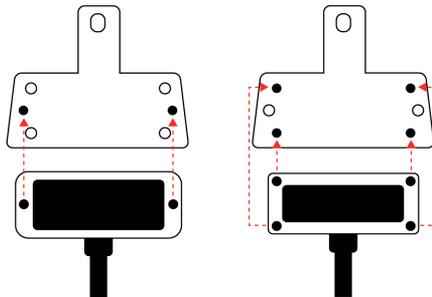
### Series 1 and 2 HARLEY KITS ONLY:

17. (2) **Mirror Stem Z-Brackets (Not included in Metric Kits)**

**ALL Road King/Sportster Kits will have (2) of the following (9,10,11)**

### Step-1: Attach Amplifier to Mounting Bracket

Bolt the amp (3) to the amp bracket (4) with the supplied amplifier mounting bolts (7). There are 6 holes in the amplifier bracket to ensure compatibility with our older style amp housing. Use the center two holes to attach the current amplifier housing as shown in *figure 1-1*. **DO NOT use RED Loctite on these screws.**

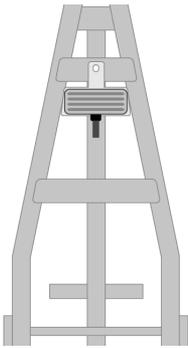


**Fig. 1-1**

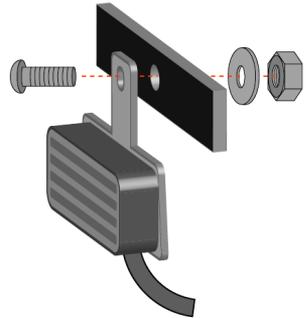
## Step-2: Attach Amplifier Bracket to Motorcycle

There is a few locations the amplifier mounting bracket can be attached and these locations may vary greatly depending on your make, model and installed accessories. Most importantly, you need to pay close attention to keep the amplifier bracket away from the front fender when the suspension is compressed. This is most often problematic with larger front fenders such as the Road King, but should be noted on every install to avoid any damage to body panels.

- A)** On most **Harley-Davidson** models the amp bracket will mount using the holes designed for attaching an engine guard (crash bar) on the A frame as shown in **figure 2-1**. If there is already an engine guard installed you can simply unbolt the guard and slip the amp mounting bracket tab behind the engine guard and reinsert the bolt. If there is no engine guard installed use the supplied parts (**9, 10, 11**) to attach the amp bracket as shown in **figure 2-2**.

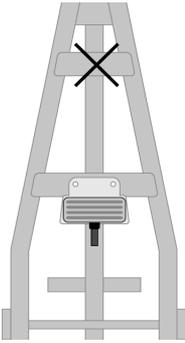


**Fig. 2-1**

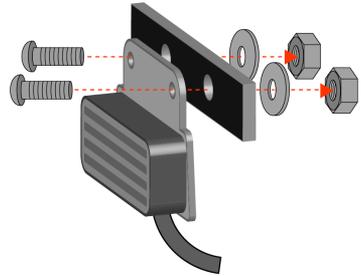


**Fig. 2-2**

- B)** On a **ROAD KING**, **DO NOT** mount the amp using the engine guard bolts or damage to the fender can occur. Instead, mount the amplifier bracket to the cross member about 2/3 of the way down the A Frame as shown in **figure 2-3**. You may need to pop out the plastic finishing covers if these holes have never been in use. You may also need to relocate wiring secured to this location. Use the supplied parts (**9, 10, 11**) to attach the amp bracket as shown in **figure 2-4**.

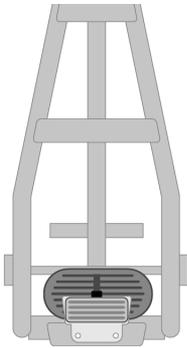


**Fig. 2-3**

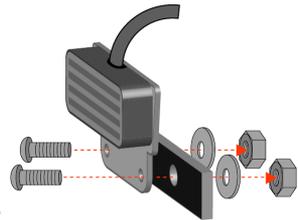


**Fig. 2-4**

- C)** On a **Sportster**, mount the amp bracket to the bottom of the A frame using the lower engine guard (crash bar) bolt locations as shown in **figure 2-5**. If you have an engine guard installed you will need to detach the bottom 2 bolts to install the amplifier bracket. You may have to slightly enlarge the amp bracket mounting holes to get the stock bolts to attach the bracket. If you don't have an engine guard installed use the supplied parts (**9, 10, 11**) to attach the amp bracket as shown in **figure 2-6**.



**Fig. 2-5**



**Fig. 2-6**

- D)** On a **Metric** motorcycle, look at the bolts holding footboards, frame bolts, engine guard bolts etc. It takes one bolt to mount the universal amplifier bracket and it is not critical where it is located so long as the amp and wiring are secure and away from moving parts and high temperatures.

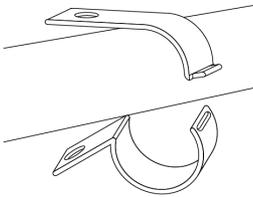
### Step-3: Secure Amplifier Harness to Frame

Once the amplifier bracket is attached, secure the amp harness to the frame using the supplied wire ties (12) making sure to keep wiring away from moving parts and high temperature heat sources such as the exhaust and engine covers.

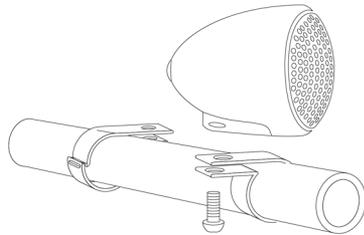
### Step-4: Attach Speakers to Handlebars

There are a couple of different ways to mount the bullet speakers depending on what series speakers you are installing and what type of bike is being installed on. **Blue Loctite is always recommended on the speaker bolts** so they don't come loose easily.

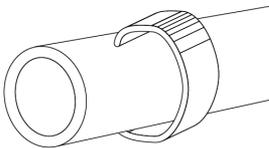
**A) Using P-Clamps:** To install speakers using p-clamps (2), separate the 2 halves of the clamps and place around the handlebar in the desired location (*figure 4-1*). If you are using the **Combo 1-1/4" P-Clamp w/ Shim** on a 1" handlebar simply spread the provided shim around the bar before clamping the p-clamp around the bar (*figure 4-3 & 4-4*). Holding the p-clamp together place the screw through the clamp into the speaker as shown in *figure 4-2*. Once in the desired location tighten each speaker mounting screw.



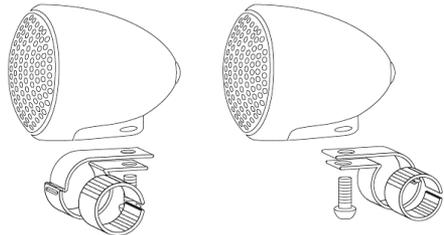
**Fig. 4-1**



**Fig. 4-2**



**Fig. 4-3**



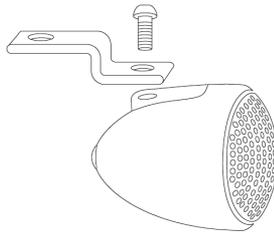
**Fig. 4-4**

*Note that the speakers can be attached to p-clamps in either direction depending on available space and installed equipment such as a windscreen.*

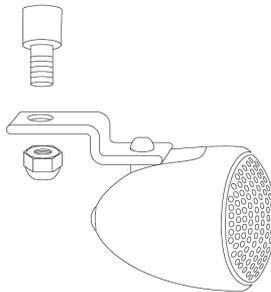
When securing the speakers for final placement, remember that they should be pointed as close to your ear level as possible for the best results.

**Note: *Installation using the mirror stem Z-brackets can only be done with the Series 1 and Series 2 speakers on a Harley-Davidson motorcycle and will not be included in other kits as they can't be used in other applications.***

- B)** To install speakers using Mirror Stem Z-brackets (17), start by attaching the short end of the Z-bracket to the speakers using the supplied speaker bolts (8) as shown in **figure 4-5**. Next, remove the mirror stem nut located underneath the control housings and slide the Z-bracket onto the mirror stem and reassemble as shown in **figure 4-6**.



**Fig. 4-5**



**Fig. 4-6**

Before tightening the mirror stem bolts for final speaker placement you will want to make sure that the speakers and brackets do not interfere with any of the controls or steering. Specifically you will want to check the speaker clearance near the gas tank, which may require adjustment of the brackets

and speakers on some bikes. To adjust, simply loosen the speaker/mirror stem bolt and rotate until a suitable location is found. Also make sure the brackets do not interfere with the throttle control or any other cabling when turning the handlebar when finished.

### Step-5: Route the Speaker Wires and Amplifier Input Wire

Once the speakers are secured on the vehicle route the speaker wires down the bars making sure to leave enough slack so the wires can be neatly secured when finished. Also begin routing the amplifier input jack (3.5mm) toward the control housing or wherever your audio control device will be located (mp3 player). Once the speaker wires and input wires are routed in a suitable location secure them using the supplied wire ties (12). When routing the speaker and amplifier wiring use caution to keep away from pinch points and heat sources.

When routing especially the amplifier input (headphone jack) wire make sure not to sinch wire ties to tight or it will leave deep dents in the wire causing a weak point. Also make sure not to have hard bends (U-shaped) in this wire or breakages can occur.

### Step-6: Electrical Connections & Wiring

When connecting power to the amplifier there are a few options depending on your setup, type of bike and personal preference. We recommend connecting the power to switched ignition so that the unit is only on when the bike is on. Finding switched ignition or 'accessory power' will be purely dependent upon what vehicle is being installed on. See below for optional Harley power connection alternatives for easy installation.

You can use a simple multi-meter to find switched ignition power; or your local shop or factory service manual should be able to easily identify which wires are suitable for powering accessories on your model. For this reason, generally it is not needed to connect an auxiliary fuse or switch, but when doing so use a 5A fuse and/or most any simple on/off switch if desired.

1. Connect the included Power Harness (5) quick connector to the amplifier power connector (red/black) as shown in **figure 6-1**. Route the power harness toward your accessory power location making sure to leave enough slack to neatly hide the wiring when finished. Again, make sure to stay away from pinch points and heat sources as you go.



Fig. 6-1

When running your power and speaker wiring you can use a rigid 'snake' tool (or something similar) to get to the battery area, underneath gas tanks and around other obstacles. Generally you do not need to remove gas tanks to install our speaker system and achieved by using this technique.

Start by running the snake tool from the battery area under the tank and out by the neck of the bike. This may take several tries as this is a tight location to get through on some bikes. Once the snake tool is at the neck, tape the wires to it as shown in **Figure 6-2**. Then from the battery area pull the snake tool underneath the tank bring the wires with it. Once the wire is run remove the tape from the snake tool.



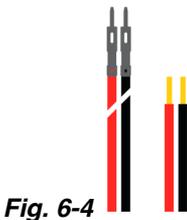
**Fig. 6-2**

2. After you have determined which wires are suitable for accessory power connection use the supplied connectors to easily wire power to the vehicle. First, take the Red Locking Connector (15) and place it around the vehicle accessory power wire as shown in **figure 6-3** and press it together with a pair of pliers until it locks.

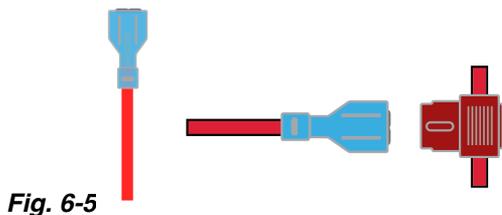


**Fig. 6-3**

3. Then, cut the pin connectors from the end of the power harness and strip off approximately 1/2" of wire (**figure 6-4**). Using a pair of suitable wire crimpers attach the Blue Male Connector (16) to the red wire on the power harness. Once this is securely connected plug the Blue Male Connector into the Red Locking Connector as shown in **figure 6-5**.

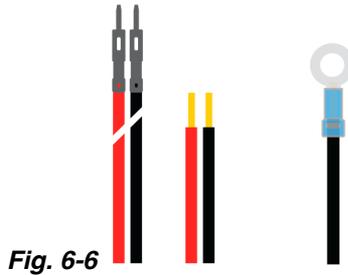


**Fig. 6-4**



**Fig. 6-5**

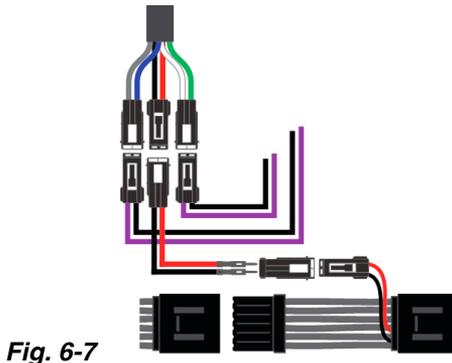
4. Last, route the black wire to a good ground location on the vehicle. This can be on the frame or another ground wire. Crimp the provided Blue Ring Terminal (14) on the black wire and connect to the ground location on the vehicle (**figure 6-6**) or use alternative methods to connect the ground wire.



**Fig. 6-6**

#### **For Harley Davidson Motorcycles Only:**

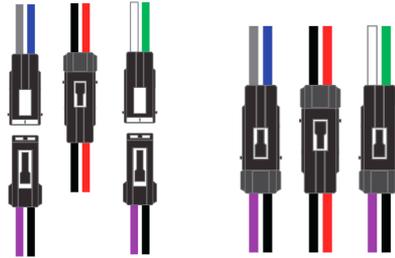
The power harness comes pre-wired with OEM style terminal connectors that plug into our optional T-Tap Accessory Connector (*p/n: 2120-0026 fits most Harley-Davidson 1999 to present – p/n: 2120-0027 fits Sportster models 2007 to current*) for easy connection of power and ground on most HD models. **Figure 6-7** shows a quick overview of the HD T-Tap connection. Please see the T-Tap instructions for further explanation. The T-Tap is sold separately and not included in the kits.



**Fig. 6-7**

### Step-7: Connect Speakers and Finish Wiring

Finish routing the speaker wires to the amplifier and connect them using the attached 2-pin quick release connectors as shown in **figure 7-1**. Bundle any extra wiring so it can be neatly tucked away underneath gauges, covers, lights, etc. Use wire ties to help secure wiring away from moving parts, pinch points and heat sources.



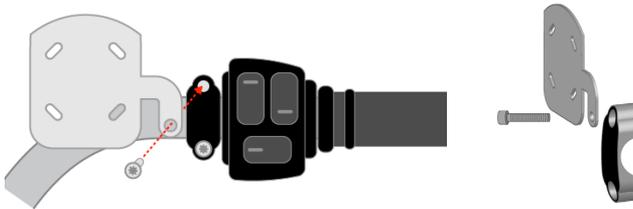
**Fig. 7-1**

Once this step is complete all wiring should be connected and secured on the vehicle. If they are not please carefully review all instructions to this point.

### Step-8: Mounting the Mp3 Switch Housing Bracket

Our kits are designed to be universal and depending on the vehicle being installed on this procedure may vary and/or require some additional hardware not included in the kit. The Mp3 Mounting Bracket is designed to work with the top screw holding the brake reservoir clamp or control housing as shown in **figure 8-1**. To accomplish this simply remove the screw and place it through the mp3 mount and reassemble.

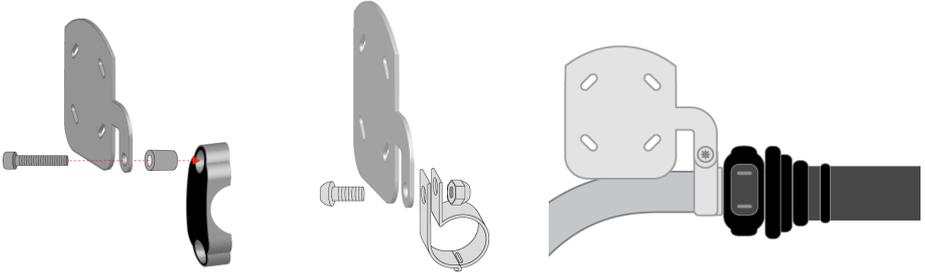
**(Fig. 8-1) Switch Housing Most HD Models**



If the brake reservoir housing is made in a way that prevents the bracket from sitting flush on the housing or is not facing toward the rider you may need to purchase a spacer, longer housing bolt or other hardware not included with the kit to use the mp3 bracket as it is intended. See **figure 8-2** for an overview of how to accomplish mounting the bracket with a spacer or on a P-Clamp. Please

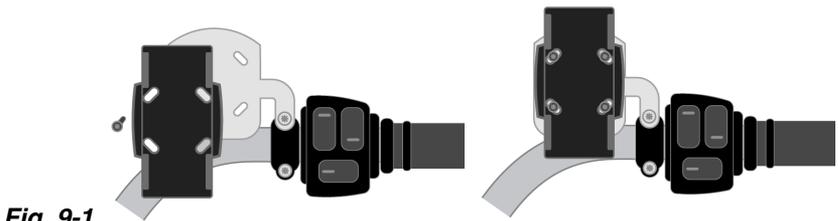
note that spacers, extra bolts and extra clamps are **not included in the kit** and may be specific for your make and model.

**(Fig. 8-2) Switch Housing Most Metric Models**

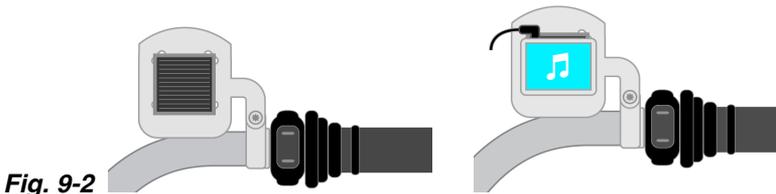


**Step 9: Attaching Devices and Using the 4-Hole AMPS Mount**

Use any 4-hole AMPS mount device cradle or holder with the universal mp3 bracket AMPS hole pattern. The 4-hole AMPS mount pattern is an industry standard and our Mp3 bracket is compatible with most Cycle Sounds device cradles and holders (iPhone, iPod, Droid, etc.) as well as many other manufacturers' device holders. See **figure 9-1** for an example of using the 4-hole AMPS mount with a cradle holder. Please note that hardware for attaching device holders will come with the holder and extra screws and nuts for attaching device cradles to the Mp3 bracket are not included in the kits.



**Fig. 9-1**



**Fig. 9-2**

You may also use the included Industrial Velcro **(13)** to attach small and very lightweight devices such as the 6th Generation iPod Nano or other similar devices as shown above in **figure 9-2**.

**\*Note:** Make sure to keep the amplifier input (headphone jack) from touching any bare metal when there is no device plugged into the jack or you may get static or popping through the speakers when the bike is on.

### **Step-10: Audio Source Equalizer Adjustments & Sound Files**

It is important to choose a quality device to use while riding to get the best sound out of your speakers. Most modern mp3 players and smart phones fit this bill perfectly fine, but you may want to make a few equalizer adjustments as well.

Our amplifier is optimized for our speakers which helps take advantage of their directional capability. What this means is that you will want to set your device to a bass reduce setting when possible. This can take some trial and error to get this just right for your particular setup and device. Generally, settings for bass reducer, vocal, acoustic, piano, etc. work well depending on the type of music playing.

The quality of the audio files matter too! This is not generally a problem with modern digital music sources (MP3, MP4, AIFF, etc.), but sometimes comes into play if low quality audio files have been obtained. If you are having problems with sound clarity this could be a factor. More information can be found about this in an iTunes tutorial on our website at [www.cyclesounds.com](http://www.cyclesounds.com).

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