

KENWOOD

XM160-2

2-CHANNEL POWER AMPLIFIER DESIGNED AND ENGINEERED TO BE
PLUG AND PLAY FOR 2014-UP HARLEY-DAVIDSON® ROAD GLIDE®,
STREET GLIDE®, OR ULTRA MOTORCYCLES

INSTRUCTION MANUAL

JVCKENWOOD Corporation

Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new power amplifier.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model XM160-2 Serial number _____



US Residents Only

Register Online

Register your KENWOOD product at <https://registerkenwood.us.jvckenwood.com/>

Safety precautions

WARNING

To prevent injury or fire, take the following precautions:

- Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.
- To prevent a short circuit, keep coins, tools, and other metal objects away from the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your KENWOOD dealer.
- Do not touch the unit during use because the surface of the unit becomes hot and may cause burns if touched.

CAUTION

To prevent damage to the machine, take the following precautions:

- Be sure the unit is connected to a 12 V DC power supply with a negative ground connection.
- Do not open the top or bottom covers of the unit.

NOTE

- If you experience problems during installation, consult your KENWOOD dealer.
- If the unit does not seem to be working right, consult your KENWOOD dealer.

Protection function

To help protect your bike's electrical system and battery, the amp has a built in feature where it will turn itself off if it sees less than 10.5 volts, whether the bike is running or not. If you're listening to your stereo while not riding, this feature can help protect your battery so the bike can still start. If you're riding and the amp shuts off, this could be showing a potential issue with your charging system. If this feature is activated and the amp shuts off, it will turn the amp back on again if the voltage exceeds the 10.5 volt threshold.

To prevent battery rise

When the unit is used in the ACC ON position without turning the engine ON, it depletes the battery. Use it after starting the engine.

■ Speaker selection

- Using speakers with smaller input ratings than the amplifier's output power would result in smoke generation or equipment failure.
- Use speakers that have an impedance of $2\ \Omega$ or greater. When more than one set of speakers are going to be used, calculate the combined impedance of the speakers and then connect suitable speakers to the amplifier.

The XM160-2 amplifier is a Class D design. It should be understood that ALL Class D amplifiers, regardless of brand, cause a reduction in FM reception. The XM160-2 features a proprietary circuit design that KENWOOD believes gives the BEST FM reception available for any Class D Amplifier designed for a motorcycle. If you add a 2nd or 3rd model amplifier to your system, reduction of FM reception is increased and is considered normal.

KENWOOD understands that some riders prefer the cosmetics of in fairing antennas, however it should be noted that NOTHING works as well as the factory antenna. If FM is an important part of your riding experience, we strongly advise against the use of any in fairing type antenna. Do not use the rod antenna as an antenna to be mounted inside the fairing.

Contents

Section 1: Installation in Street/Ultra Glide Models.....	3
Section 2: Installation in Road Glide Models.....	6
Section 3: Adding a Second XM160-2 to the Bike.....	8
Section 4: Final System Adjustments.....	10
Warranty Info.....	11

Section 1 - Single Amplifier Installation in Street Glide / Ultra

I Installation procedure

1. Remove the seat and both wires (+ and -) from the battery. Remove the outer fairing/headlamp assembly and set it aside. Refer to a service manual if you need help with this.

NOTE: Placing a towel on the front fender can help prevent scratches or "dings" from dropped tools or fasteners, etc.

2. Over the top of the radio, pull up to release each wire harness from the black plate via the factory "Christmas tree" fasteners. If your bike has factory GPS, the small square antenna will need to be relocated just behind the voltmeter as shown in Fig 1.1 below.

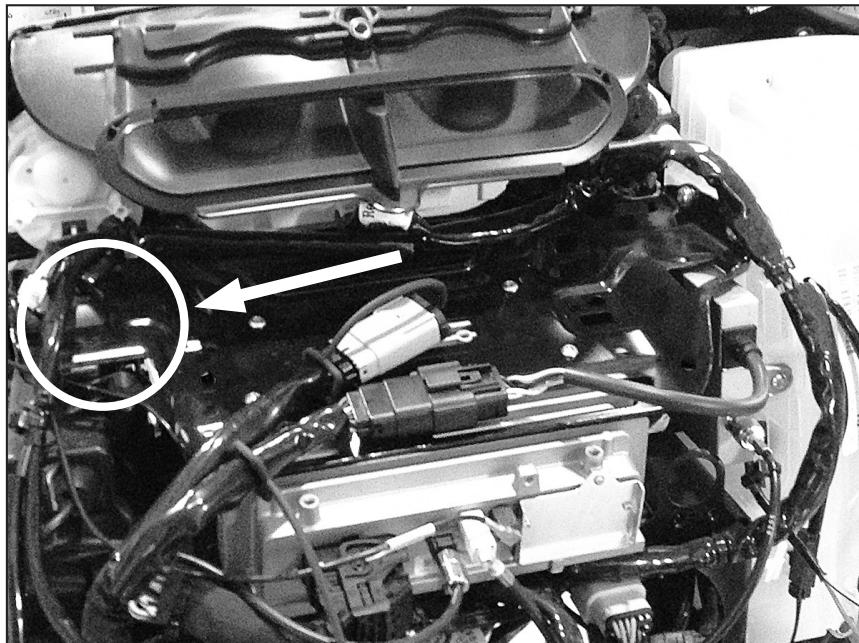


Figure 1.1 - The white circle shows the new location for GPS Antenna if your bike came factory equipped with this feature.

3. Remove the four factory T-20 "Torx" screws that go through the top of the black plate and into the top of the radio.

Section 1 - Single Amplifier Installation in Street Glide / Ultra - Cont.

4. Sit the amplifier plate over the top of your radio and reinstall the factory screws to secure the amplifier's mounting plate to your bike noting the plate can only go on one way. Locate the supplied input harness and plug it into the "audio input" socket on the side of the amp. Locate the "front output" harness with brown/black and blue/black wires and plug it into the 4 pin BLACK plug on the pig-tail coming out of the amp. Place the amp back on the plate. For reference, if you are standing in front of the bike looking down at the plate, the amp will go to the extreme left so the power harness is closest to you. When sticking the amp in place, position the 4 pin black plug on the pig-tail so it's sitting on top of the amp. This will allow the amp to sit as close to the gauges as possible and allow your outer fairing to go back on. There is a "tab" on the front of the amplifier's mounting plate which allows you to re-attach the wire harness using the factory Christmas tree fastener.



Figure 1.2 - Single XM160-2 amplifier correctly positioned on mounting plate.

5. On the back of each speaker cabinet, you will see pink wires that go to a plug. Separate these plugs on each side of the bike. From the amp, take the 2 pin plug with the blue/black wires and install it into the plug going into the brake side speaker cabinet. Take the 2 pin plug with the brown/black wires and install it into the plug going into the clutch side speaker cabinet.

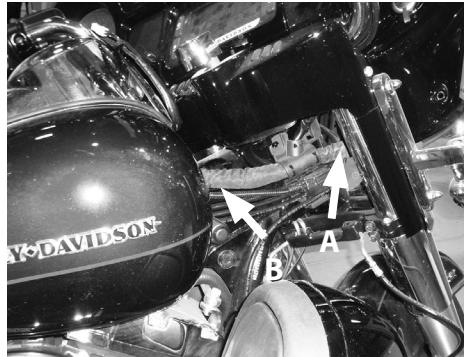
6. From the amp's input connector, take the 2 pin plug with the green/black wires and install it into the mating plug on the brake side of the bike. Also from the amp's input connector, take the 2 pin plug with the yellow/black wires and install it into the mating plug on the clutch side of the bike.

7. Locate the main power harness and plug it into the matching "pig-tail" on the side of the amplifier. If installing 2x XM160-2, run the second power harness at the same time as this step. In addition to the power harness, any other harness running to the rear of the bike (Lids or Tour Pak speakers etc.) should be ran now.

Section 1 - Single Amplifier Installation in Street Glide / Ultra - Cont.

8. The balance of the main wire harness will pass under the inner fairing where the main wire harness passes through on the brake side of the bike. Loosen the tank console and run wires up and over the gas tank, but under the tank console. There is a provision on the front of the tank console for wires to pass. Secure the amplifier's harness to the bike's factory harness using zip ties. When correctly installed, the power and ground wires are the correct length to connect to the battery.

Figure 1.3 - Stock Harness and Amplifier's Harnesses Passing From Fairing To Just In Front Of Tank (Arrow A). Cable Tying the 2 Amp Harnesses to the Main Bike Harness Just In Front Of The Tank (Arrow B) Allows The Amp Harnesses To Go Up Towards The Tank's Chrome Console Easier And Makes For a Cleaner Install.



NOTE: Although not necessary, you can run the harness along the backbone of the bike's frame if you choose to remove and re-install the bike's fuel tank.

- Attach the red wire to the positive (+) battery terminal and the black wire to the negative (-) battery terminal. The factory battery wires are also re-installed at this point. Turn the ignition of the bike to the "on" position and play the stereo at low volume to verify the amplifier is working properly.

Now is a good time to "clean up" and secure any wiring inside or your fairing using supplied zip ties. For the best possible FM reception, DO NOT attach any of the amplifier's wiring to any factory antenna wires! If you are installing a second XM160-2 amplifier, please go to Section 3 of this manual.

IMPORTANT: With all wires secured, turn the front wheel to each extreme side, making sure that any wires cannot bind or impede the steering of the motorcycle. Failure to do so can cause an accident resulting in serious injury or death!

If this is the only amplifier being installed, please go to "Final System Adjustments" on page 10 of this manual.

Section 2 - Single Amplifier Installation in Road Glide / Road Glide Ultra

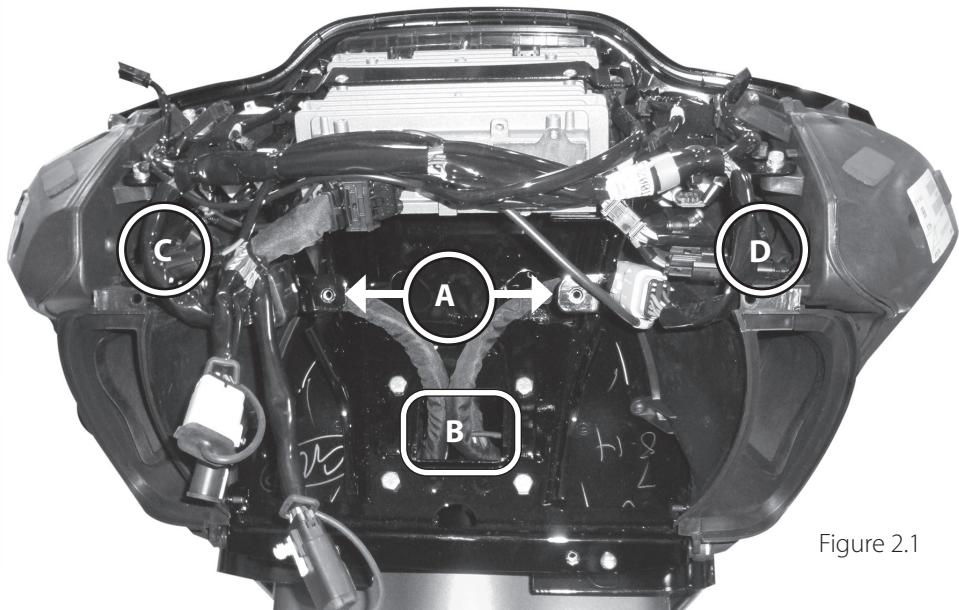


Figure 2.1

Before proceeding, please locate the points in the fairing identified by the letters in Figure 1.

A= Mounting points for headlight assembly

B= Wire passage from fairing to bike

C= Brake side speaker harness (Pink and Pink with Black Stripe wires)

D= Clutch side speaker harness (Pink and Pink with Black Stripe wires)

1. As shown in Fig 2.2, locate the Road Glide specific plate and adhere the amp to the plate so it is in the same orientation as shown. When installed, the amp will be on the back of the plate. The reason for this is so that it is much easier to put a second amp on later if you choose. The second amp sticks to the front of the plate.



Figure 2.2

Section 2 - Single Amplifier Installation in Road Glide/RG Ultra - Cont.

2. Locate the power harness for the amplifier. One end has ring terminals and a fuse, and the other has a 2 pin connector. Using Fig 2.1 on Page 6 for reference, to run the "ring terminal end" of the power harness through "B". We need it so the 2 pin power connector is accessible in the inner fairing and the slack can be adjusted later in the installation. Just in front of the tank, there is a structure that attaches the fairing to the frame of the bike. The power harness will pass through this structure and exit through the rectangular opening where the factory harness also exits the structure on the BRAKE side of the bike. Note: it can be easier to pass the wire harness through the rectangular opening if you "open" the fuse holder and remove the fuse before passing the wire harness. Loosen the tank's "chrome console" and run wires up and over the gas tank, but under the tank's chrome console. There is a provision on the front of the tank console for wires to pass.

NOTE: Although not necessary, the power harness can go under the gas tank if you choose to remove and re-install the tank. If installing 2 amplifiers, both power harnesses (and rear or lid harnesses) can be ran now.

With the power and ground wires in the vicinity of the battery, move to step 3 WITHOUT connecting the amp wires to the battery.

3. Locate the "audio in" harness and plug its 8 pin white plug into "audio in" on the side of the amp. Locate the amp's "front out" harness and plug it into the 4 pin BLACK pigtail coming out of the side of the amp.

NOTE: There is a variable gain on the amplifier that allows you to "tune" the amp in relation to other speakers and/or amps on the bikes if they are added. Access to this adjustment will not be possible once the amplifier is installed in the correct position.

4. Using Fig 2.1 on page 6 for reference, locate the 4 bolts around "B" and remove the top left and top right bolts (only). Also using Fig 2.1 on page 6 for reference, there are 2 large factory harnesses between "A" and "B". You will have to wiggle the amp on the plate into place around these harnesses so that the holes on the "legs" at the bottom of the plate line up with the holes where the factory bolts around "B" were. With the plate in position, reinstall the factory bolts around "B" which will secure the amp on its plate to the bike.

5. As shown by "C" in Figure 2.1, on the brake side of the bike, there is a 2 pin connector with pink/pink with black stripe wires going through it. The plug is close to where the wires enter the brake side speaker cabinet. Separate the connector so there are 2 plugs. From the amp, take the plug with blue/black wires and plug it into the mating plug you just separated noting it will only go in one way. Also from the amp, take the plug with green/black wires and plug it into the mating plug that was just separated noting it will only go in one way.

Section 2 - Single Amplifier Installation in Road Glide/RG Ultra - Cont.

6. As shown by "D" in Figure 2.1, on the clutch side of the bike, there is a 2 pin connector with pink/pink with black stripe wires going through it. The plug is close to where the wires enter the clutch side speaker cabinet. Separate the connector so there are now 2 plugs. From the amp, take the plug with brown/black wires and plug it into the mating plug that was just separated, noting it will only go in one way. Also from the amp, take the plug with yellow/black wires and plug it into the mating plug that was just separated noting it will only go in one way.

7. Attach the black wire to the negative (-) battery terminal and the red wire to the positive (+) battery terminal. The factory battery wires are also re-installed at this point. When attaching the power and ground wires, it is always a good practice to do the negative (black) first. When the positive connector touches the battery, some sparking is normal. This is a function of the capacitors in the amplifiers charging up.

Turn the stereo on at low volume and test to make sure the speakers are working. Now is a good time to "clean up" and secure the wires using the supplied zip ties. DO NOT attach any of the amplifier's wiring to any factory antenna wires!

IMPORTANT: With all wires secured, turn the front wheel to each extreme side making sure that any wires cannot bind or impede the steering of the motorcycle. Failure to do so can cause an accident resulting in serious injury or death!

If you are installing a second XM160-2 amplifier, please go to Section 3 of this manual.

If this is the only amplifier being installed, please go to "Final System Adjustments" on page 10 of this manual.

Section 3 - Adding a Second XM160-2 to the Bike

1. Remove the seat and both wires (+ and -) from the battery. Remove the outer fairing/headlamp assembly and set it aside. Refer to a service manual if you need help with this.

2. You will now need to run the second power harness to the battery. For Street Glide/Ultra, refer to Step #7, on page 4, in Section 1 of this manual. For Road Glide/RG Ultra, please refer to Step #2, on page 7, in Section 2 of this manual for running the power harness. DO NOT re-attach the power wires to the bike at this time!

3. Remove the new amp you are installing off the plate it came on in the box. Put that plate aside as it is not used in this installation. If installing a second amp in a Street Glide or Ultra, the second amp will be installed on the plate already on the bike as shown below in Fig 3.1 below. Make sure to have the 4 pin black "pigtail" sit on top of the amp when sticking it in place.

Section 3 - Adding a Second XM160-2 to the Bike - Cont.

If installing the second amp in a Road Glide or RG Ultra, the second amp will "stick" to the front of the mounting plate as shown in Fig 3.2 below.



Figure 3.1



Figure 3.2

IMPORTANT: In this install, we refer to the "1st amp" as the Primary and the 2nd amp as the Secondary. On Street Glide/Ultra, the Primary Amp is on the left side of the plate. On Road Glide/RG Ultra, the Primary Amp is on the back side of the plate. In all cases, the Primary Amp is what is powering your front fairing speakers and the Secondary is powering speakers elsewhere on the bike.

4. Locate the "input link" harness included in the box. Take the blue 4 pin male plug on the "input link" and plug into the empty blue 4 pin female plug on the Primary Amp's input harness. The 8pin plug on the input link will now plug into the "input" on the Secondary Amp. This is how we get music from the Primary Amp to the Secondary Amp. When done, you will have a blue 4 pin female plug on the input link that is empty. Although not used for this install, this empty plug could be used to send music to a 3rd amp later on.

5. The last connection to the secondary amplifier (right side on Street Glide or Front amp on Road Glide) is to the second set of speakers in the system.

If you are using replacement lids or modifying the lids to hold a speaker, the harness that comes with the lids will work its way up the bike, and plug right into the 4 pin black amplified out "pigtail" on the Secondary Amplifier.

Section 3 - Adding a Second XM160-2 to the Bike - Cont.

If you are using the KENWOOD lower speaker pods, the harness included with the kit will also plug directly into the 4 pin black amplified out "pigtail" on the Primary (front) Amplifier.

In all other cases you will use the "ACC" harness included in this kit that has a 4 pin black plug on one end, and wires on the other. This will plug into the amplified out "pigtail" on the Secondary Amplifier and "hardwire" the second set of speakers to this harness. The wires on the supplied ACC harness are clearly labeled, which will make the wiring easy.

6. Attach the power harnesses black wires to the negative (-) battery terminal and the red wires to the positive (+) battery terminal. The factory battery wires are also re-installed at this point. When attaching the power and ground wires, it is always a good practice to do the negative (black) first. When the positive connector touches the battery, some sparking is normal. This is a function of the capacitors in the amplifiers charging up.

7. Turn the stereo on at low volume and test to make sure all speakers are working. Each amp has a variable gain you can now adjust to tune the volume levels between amps. If there are front speakers and lids, and you want the lids louder, so decrease the gain level on the Primary Amp in correlation to the Secondary Amp. There is no right or wrong way here, just set it how you prefer it.

Now is a good time to "clean up" and secure any wiring inside your fairing using supplied zip ties. For best possible FM reception, DO NOT attach any of the amplifiers wiring to any factory antenna wires!

IMPORTANT: With all wires secured, turn the front wheel to each extreme side making sure that any wires cannot bind or impede the steering of the motorcycle. Failure to do so can cause an accident resulting in serious injury or death!

Section 4 - Final System Adjustments

From time to time, Harley-Davidson will release software updates on their website which can be downloaded and installed on the bike. For the best performance of your audio system, please make sure the downloads are up to date! Earlier versions of the software could cause any brand of aftermarket amplifier to distort prematurely so this is an important point!

How the system sounds when the bike is running is going to differ from how it sounds when the bike is not running. This is a function of the radio's built-in software. You may find yourself adjusting the bass and or treble controls if you're listening to the bike without the motor running.

KENWOOD LIMITED WARRANTY

This warranty will be honored only in the U.S.A.

HOW LONG IS THE WARRANTY

JVCKENWOOD USA Corporation ("KENWOOD") warrants this product for a period of one (1) year from the date of original purchase.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material and workmanship in KENWOOD products.

The following are not covered by the warranty:

1. Any product which is not distributed in the USA by KENWOOD or which is not purchased in the USA from an authorized KENWOOD dealer or an automobile dealer, unless the product is purchased through the U.S.A. Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
 - a. Any shipment of the product (claims must be presented to the carrier).
 - b. Installation or removal of the product.
 - c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
 - d. Repair or attempted repair by anyone not authorized by KENWOOD.
 - e. Any other cause which does not relate to a product defect.

WHO IS PROTECTED

This warranty is enforceable only by the original purchaser.

WHAT WE WILL PAY FOR

We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

HOW TO OBTAIN WARRANTY SERVICE

If your KENWOOD product ever needs service:

1. Take or ship it to any KENWOOD Authorized Service Center in the USA along with a complete description of the problem. (if you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD (1-800-536-9663) for the nearest Service Center.
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

KENWOOD USA CORPORATION

P.O Box 22745, 4001 Worsham Avenue, Long Beach CA 90808

Tel: (800) 536-9663

www.us.jvckenwood.com

Important Notes

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For U.S.A.

FCC CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity

Trade Name: KENWOOD
Products: CLASS D 2-CHANNEL POWER AMPLIFIER
Model Name: XM160-2
Responsible Party: JVCKENWOOD USA CORPORATION
4001 Worsham Avenue,
Long Beach, CA 90808, U.S.A.
PHONE: 1-800-252-5722

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

For updated information (the latest Instruction Manual, etc.),
please visit the following website:

https://manual.kenwood.com/en_contents/search/



KENWOOD

XM69R

6" X 9" COAXIAL SPEAKERS DESIGNED AND ENGINEERED TO CONNECT
AND MOUNT TO KENWOOD CA-CUT14, CA-LID98, & OTHER BRANDS
OF 6"x 9" LIDS FOR HARLEY-DAVIDSON® MOTORCYCLES

INSTRUCTION MANUAL

JVCKENWOOD Corporation

**Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the best performance from your new power amplifier.**

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model XM69R Serial number _____



US Residents Only

Register Online

Register your KENWOOD product at <https://registerkenwood.us.jvckenwood.com/>

Safety precautions

CAUTION

To avoid the risk of human injury or property damage, be sure to read and observe the following safety precautions:

- Consult a professional technician for installing and connecting the speaker. — Incorrect installation may lead to traffic accidents or malfunctions.
- Avoid installation where the speaker is unstable. — Make sure that the speaker is stationary and does not rattle. Displacement of the speaker may cause injury.
- Do not modify the speaker. — Doing so may result in smoke or fire.
- Keep the volume of sound at an optimum level. — Not being able to hear sounds from your surroundings can lead to traffic accidents.
- In case of abnormality, stop the use and disconnect the speaker. — If operation is continued, smoke or fire may result. Disconnect the speaker and ask servicing.
- Always wear protective eyewear during installation.
- To prevent short-circuit, keep all wiring away from moving parts, sharp edges, cut metal, etc.
- When removing or installing the grille, be careful not to brush the unit with the edge of the grille.
- Do not switch ON power until wiring is completed.

FOR PROPER INSTALLATION AND USE

Please read the instructions carefully before using this speaker:

- Be careful not to accidentally kick or apply any sort of strong impact to the speaker.
- To prevent damaging the speaker, turn off the power of the amplifier before connecting it to the speaker.
- Do not use the provided parts for other purposes. Otherwise malfunction or fire hazard could result.

NOTE

Observe the following cautions to prevent damage to the speakers:

- You cannot input the same power as "peak power" continually.
- When the volume is set too high, the sound may be distorted or abnormal. Reduce the volume promptly in case of such phenomena.

KENWOOD XM69R speakers will work best when powered by an amplifier. They have an impedance of 2 ohm and will cause damage if wired directly to the built-in power of a non-2 ohm stable radio.

The speaker's magnets are POWERFUL! Credit cards and electronics can be sensitive to magnets, so please exercise caution in how you pack your saddlebags. Metal objects packed into your bags may end up stuck to the magnet, so please use caution when opening the lids.

Contents

Section 1: Installation Instructions to KENWOOD CA-CUT14 for 2014-Current Bikes.....	3
Section 2: Installation Instructions to KENWOOD CA-LID98 Lids for 1998-2013 Bikes.....	3
Section 3: Installation Instructions for another brand of 6" x 9" lids.....	4
Warranty Info.....	5

Section 1 - Installation Instructions to KENWOOD CA-CUT14 for 2014-Current Bikes

I Installation procedure

The CA-CUT14 (sold separately) enables you to install the XM69R speakers into select hard saddlebag lids without a pre-existing speaker option. Please reference the CA-CUT14 instruction manual for detailed installation instructions.

Section 2 - Installation Instructions to KENWOOD CA-LID98 Lids for 1998-2013 Bikes

Note: This is written as if you already had the lids on and are simply changing the speakers.

With the speakers that were in the lids removed, locate the bag in the box for 98-13 "AA" lids. These are soft black silicone gaskets that go between the speakers and the lids and MUST be installed correctly to keep water out. One side of the gaskets has a groove on the inside, and the other side has a groove on the outside. On the underside of the lid, you will see a "lip" that goes around the speaker opening. The side of the gasket with the groove on the inside will "mate" to the lip around the speaker opening on the lid.

IMPORTANT: The gasket will come close to one of the 2 holes where screws go through to secure the grille as shown by the arrow in Fig 1.1 (below).

The gasket MUST be oriented so the "notch" in the silicone gasket goes around this screw boss.

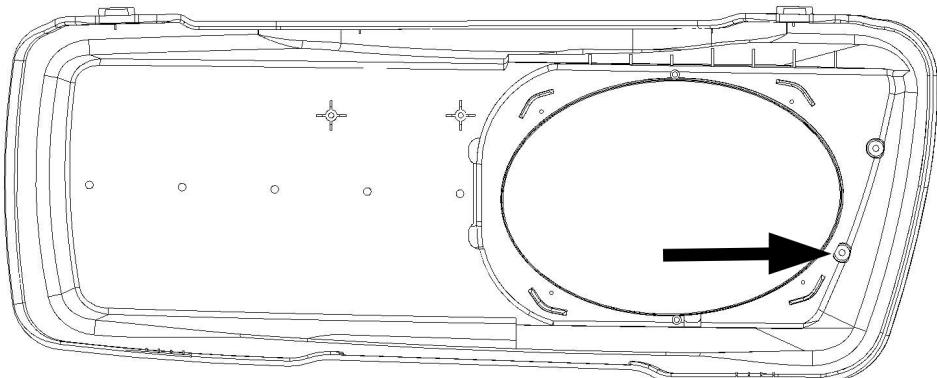


Figure 1.1

Section 2 - Installation Instructions to KENWOOD CA-LID98 Lids for 1998-2013 Bikes

On the speaker itself, you will see a "lip" that goes around the perimeter of the speaker's steel frame. The side of the gasket with the groove on the outside will "mate" to the lip around the speaker. **IMPORTANT:** The "end" of the speaker with the small circuit board and speaker connectors must be placed so they are closest to the REAR of the lid. Take a moment to check that the gasket is sitting correctly on the lid and the speaker is sitting correctly on the gasket before securing the speaker to the lid using the silver Phillips pan head screws.

Section 3 - Installation Instructions for another brand of 6" x 9" lids

Most aftermarket saddlebag speaker lids fit a common-sized 6" x 9" speaker like the ones in this kit. Locate the bag for the 14+ "RM" lids. These are soft black silicone gaskets that go between the speakers and the lids. One side of the gaskets has a groove on the inside, and the other side has a groove on the outside. The side of the gasket with the groove on the outside will "mate" to the lip around the speaker. With the gasket in place, secure the speaker to the lids you are using.

KENWOOD LIMITED WARRANTY

This warranty will be honored only in the U.S.A.

HOW LONG IS THE WARRANTY

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Except as specified below, this warranty covers all defects in material and workmanship in KENWOOD products.

The following are not covered by the warranty:

1. Any product which is not distributed in the USA by KENWOOD or which is not purchased in the USA from an authorized KENWOOD dealer or an automobile dealer, unless the product is purchased through the U.S.A. Military Exchange Service.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
 - a. Any shipment of the product (claims must be presented to the carrier).
 - b. Installation or removal of the product.
 - c. Accident, acts of nature, misuse, abuse, neglect, unauthorized product modification or failure to follow instructions supplied with the product.
 - d. Repair or attempted repair by anyone not authorized by KENWOOD.
 - e. Any other cause which does not relate to a product defect.

WHO IS PROTECTED

This warranty is enforceable only by the original purchaser.

WHAT WE WILL PAY FOR

We will pay for all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

HOW TO OBTAIN WARRANTY SERVICE

If your KENWOOD product ever needs service:

1. Take or ship it to any KENWOOD Authorized Service Center in the USA along with a complete description of the problem. (if you are uncertain as to whether a Service Center is authorized, please call 1-800-KENWOOD (1-800-536-9663) for the nearest Service Center.
2. Although you must pay any shipping charges if it is necessary to ship the product for warranty service, we will pay the return shipping charges if the repairs are covered by the warranty within the United States.
3. Whenever your units are taken or sent for warranty service, you must include a copy of the original dated sales receipt as proof of warranty coverage.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

KENWOOD'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. KENWOOD SHALL NOT BE LIABLE FOR:

1. INSTALLATION OR REMOVAL CHARGES, DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN KENWOOD CAR STEREO COMPONENTS, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If a problem develops during or after the Limited Warranty Period, or if you have any questions regarding the operation of the product, you should contact your KENWOOD Authorized Dealer or Authorized Service Center. If the problem or your question is not handled to your satisfaction, please contact our Customer Relations Department at the address listed below:

KENWOOD USA CORPORATION

P.O Box 22745, 4001 Worsham Avenue, Long Beach CA 90808

Tel: (800) 536-9663

www.us.jvckenwood.com

Important Notes

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**For updated information (the latest Instruction Manual, etc.),
please visit the following website:**

https://manual.kenwood.com/en_contents/search/



KENWOOD

CA-CUT14

CUT-IN LID KIT FOR 6" X 9" SPEAKERS DESIGNED AND ENGINEERED
FOR 2014-UP HARLEY-DAVIDSON® RUSHMORE MOTORCYCLES WITH
FACTORY-STYLE HARD SADDLEBAGS

INSTRUCTION MANUAL

JVCKENWOOD Corporation

**Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the best performance from your new product.**

Safety precautions

WARNING

The factory saddlebag hinges limit the size of the speaker magnet that can be used and allow the lids to open and close without issue. KENWOOD assumes ZERO RESPONSIBILITY for fitment issues, or water leaks when any speaker brand other than KENWOOD is used.

Do Not Use "Thread Lock" or "Screw Glue" of any kind, as it destroys plastic and will cause part failure.

Most speaker magnets are large and powerful. Credit cards and electronics can be sensitive to magnets, so please exercise caution in how you pack your saddlebags. Metal objects packed into your bags may end up stuck to the magnet, so please use caution when opening the lids. Magnets can also get hot when speakers are being played, especially at higher volumes. Please consider this when packing your saddlebags.

Contents

Section 1: Getting Started.....	2
Section 2: Disassembling The Factory Lid.....	3
Section 3: Mounting The Templates.....	4
Section 4: Wiring The Saddlebags For Speakers.....	7
Section 5: Wiring From Amplifier To Saddlebags.....	7

Section 1 - Getting Started

■ Installation procedure

1. Remove the saddlebag from the bike and put it on a stable working surface (placing blankets, towels, etc. on your work surface will help to protect the paint).
2. The black circle in Fig 1.1 is where a 5/8" (16mm) hole will need to be drilled. This hole is where the supplied silicone grommet will go to allow the lid's speaker wire to pass through from the saddlebag. Use masking tape over the painted area to be drilled and start with a small bit, gradually working your way up to the 5/8" (16mm) hole. Drilling the hole with the lid still on is recommended.

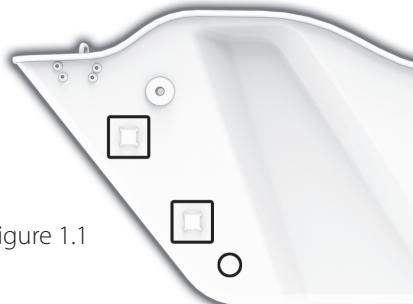


Figure 1.1

Section 1 - Getting Started - Cont.

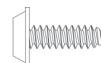
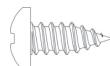
3. Locate the wire harness and take the 48" section with the silicone grommet in line and install it into the saddle bag, making sure the 2 speaker "spades" are on the inside of the bag and the single 2-pin connector is on the outside of the bag. The black squares (also in Fig 1.1) are an approximation of where the supplied zip tie peel and stick "anchors" will be placed.

NOTE: Note: Before applying the anchors, you need to clean the plastic WELL using 99% isopropyl alcohol, or a similar cleaner. DO NOT use Acetone (it will eat plastic). Do not apply pads until the cleaner has completely evaporated.

Section 2 - Disassembling The Factory Lid

NOTE: The kit comes with 2 types of screws:

- 6 (each) Phillips head screws with a pointy end
- 16 (each) Phillips "Thread Forming" screws with a "flat" end



For proper installation of this kit, you will need to use the correct screws throughout the process. As you disassemble your factory lid, please make note of what screws came from where, as they will be re-used.

1. Referencing Fig. 1.2, open the factory lid and you will see 2 "T15" Torx screws on the "bag side" of the cloth tether that holds the lid to the bag. Remove these 2 screws, move the cloth tether out of the way, and you will see 2 more of the same screws which also need to be removed. The lid is now free from the bag.

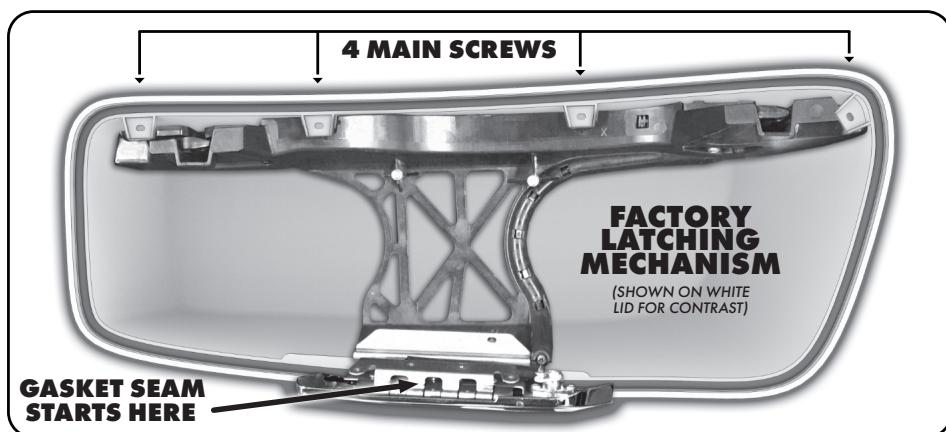


Figure 1.2

Section 2 - Disassembling The Factory Lid - Cont.

2. Remove the 2 screws that hold the "key lock" to the factory lid. The chrome panel with the reflector built-in comes off the factory lid by removing the 3 screws right next to the key lock. At its seam, the factory foam gasket needs to be peeled up enough to allow the rest of the hinge mechanism to be removed from the factory lid.
3. There are 2x "T20" torx screws that hold the balance of the hinge mechanism to the plastic of the lid. Remove these screws and put the hinge mechanism aside.
4. Remove the T15 screw that holds the opening handle in place and pull the handle away from the factory lid.
5. Remove the last 4x T15 screws securing the large latching mechanism to the underside of the factory lid. This entire mechanism is now removed.

Section 3 - Mounting The Templates

1. Locate the cutting templates, noting that they are clearly marked "Clutch side" and "Brake side". As shown in Fig 1.4, apply masking tape to the underside of the template to avoid unnecessary scratches to the lid's paint.
2. Using Fig 1.3, put the correct template on the correct lid and drill through the 3 holes in the template using a 1/8" (3mm) drill bit. Locate 3 of the supplied "pointy" ended screws, and using hand tools, secure the template to the lid. You will also see "keyhole" shapes in each template where you will start to cut when its time. Drill a 1/8" (3mm) "starter hole" in each of these keyholes and then enlarge these holes to 5/16" (8mm).
3. Using a scratch awl or a pick tool (or something similar), scratch the factory paint all the way around the outermost area of the "cut line". This gives you a line you can use "just in case" you need to trim your lid once your cutting is complete.

Figure 1.3

Underside of
Template
(No Masking Tape)

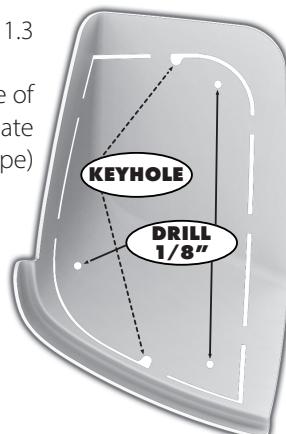


Figure 1.4

Underside of
Template
(With Masking
Tape Applied
Around Perimeter)



Section 3 - Mounting The Templates - Cont.

We Strongly suggest using a blade made SPECIFICALLY FOR PLASTICS. When cutting your lid with the correct blade, there should be ZERO smell of burning plastic! Incorrect blades will do more melting than cutting.

CUTTING THE GRILLE OPENING

4. For cutting, we suggest using a standard jigsaw or an air "body" saw. In all cases, you will start at one of the "keyholes" in the template and stop at the "hard corners" as shown in Fig. 1.5. Make sure to cut through all the tabs in the template. We suggest starting at the keyhole closest to the middle of the lid. Once the template is free from the lid, it can be discarded. You will now see the line you scribed in case you need to do any trimming before proceeding.

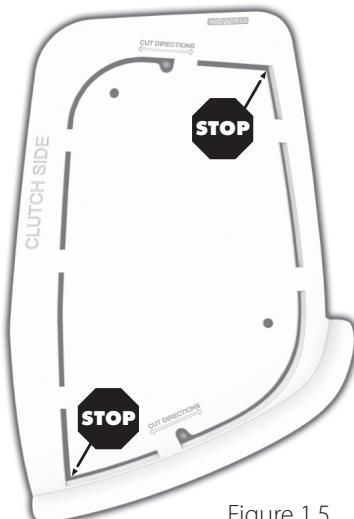


Figure 1.5

TEST FITTING THE GRILLE

5. You can now test fit the grille to see if it fits nicely in the opening. Trim as needed, being careful not to damage your painted surface. Once you are satisfied that everything fits nicely, re-install the lid's latching mechanism. Be sure to not put the lids on the bags yet.



Figure 1.6

Section 3 - Mounting The Templates - Cont.

CLUTCH SIDE LID

6. Place the lid upside down on a blanket or something similar to protect its painted surface. Locate the speaker adaptor marked "Clutch", noting that it only fits one way. In the order shown, put "thread forming" screws through the adaptor and into the grille so the pieces "sandwich" the opening.

BE SURE to put a supplied rubber washer on screw #4!

Using hand tools, get each screw started. Once started, tighten each one down until they "stop" (they don't need to be any tighter than that and will damage the rubber washer and cause leaking if tightened more).



Figure 1.7

BRAKE SIDE LID

7. Place the lid upside down on a blanket or something similar to protect its painted surface. Locate the speaker adaptor marked "Brake", noting you will see it only fits one way. In the order shown, put "thread forming" screws through the adaptor and into the grille so the pieces "sandwich" the opening.

BE SURE to put a supplied rubber washer on screw #3! Using hand tools, get each screw started. Once started, tighten each one down until they "stop" (they don't need to be any tighter than that and will damage the rubber washer and cause leaking if tightened more).



Figure 1.8

NOTE: Depending on what speakers you are using, this will determine if the supplied silicone speaker gasket is required. If your speakers have a soft foam (or other soft material) as a gasket already attached to the front of the speaker, the supplied gasket may not be required to help seal the speaker to the adaptor. If your speakers have no gasket (or a very hard gasket), we suggest using the supplied gasket.

8. The supplied gasket has a "flat side" and a "groove" side. Put the flat side against the adaptor so your speaker sits on the groove side. Using the supplied "thread cutting" screws, attach your speakers to the adaptors, noting which way the speaker wire connectors are for easy access once inside the bag. With the speakers attached to your lids, re-attach the lids to your saddlebags and re-install the completed bags to the bike.

Section 4 - Wiring The Saddelbags For Speakers

NOTE: The pre-terminated spade connectors on the harness inside the bag are correct for KENWOOD speakers but may need to have new terminals installed for other speakers. The larger connector (colored wire) is negative, and the smaller connector (black) is positive.

1. With the correct terminals on the wires, plug the wires into your speakers. If you have other accessories or amplifiers in your bags, you will need to determine the best routing of the wire. BE SURE TO LEAVE EXTRA SLACK SO THE LID CAN OPEN!
2. Use the supplied peel-and-stick zip tie "anchors" to secure the wires inside your bag. Before applying the anchors, you need to clean the plastic WELL using 99% isopropyl alcohol, or a similar cleaner. DO NOT use Acetone (It will eat plastic). Do not apply pads until the cleaner has completely evaporated. With the anchors in place, secure the wires in place using supplied zip ties.

Section 5 - Wiring From Amplifier To Saddlebags

The supplied long wire harness covered in a braid with 4 wires has two 2-pin plugs on one end, and a single 4-pin plug on the other. In all cases, the end with the 4-pin plug will go nearest the amplifier you're using (which will typically be your fairing).

For FLH (Batwing) models, the harness will pass under the inner fairing where the main wire harness passes through on the clutch side of the bike.

For FLTR (Road Glide) models, the harness will pass through the inner fairing where the factory wires pass.

1. Loosen the tank console and run the wires up and over the gas tank, but under the tank console. There is a provision on the front of the tank console for the wires to pass.

Note: You "can" lift the fuel tank and run the wires in the factory "chase" on the top of the frame if you want, but it is not required.

2. The other end of the harness will stop just behind the battery. Plug the wires from each saddlebag into the main harness, noting each pair of wires is marked "clutch side" and "brake side" for reference.

3. Undo the quick-release fasteners used to secure the bag to the bike so the bag can lean away from the bike, allowing you to access the wires on the back side of the bag installed earlier. The wire will go upwards and need to be secured to the peel-and-stick "anchors" using supplied zip ties.

IMPORTANT: Any slack in the speaker wires between the bike and the bags MUST be secured under the seat to eliminate the chance that the wires could become tangled in the bike's moving parts when riding!

4. The 4-pin connector on the wire harness will plug into the KENWOOD XM160-2 amplifier. If you are using another brand of amplifier, you will see that the wires near the 4-pin plug are labeled. Simply cut the connector off and wire the lids to your amplifier using the labels to identify each wire.

Important Notes

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