



M-PAK 14CX/HD

Installation guide

**For 2014+ Harley Davidson
Street Glide/Ultra classic/Electra Glide**

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1. Locate the Philips head screw at the back of the seat and remove it being careful not to drop it. This will free the back of the seat. Raise it slightly and slide the seat toward the back of the bike until it comes free.

Note: It maybe necessary to remove the seat strap. The Philips screw for the strap can be found behind the saddle bag.



2. Remove the 2 bolts at the back of the tank under the seat. Don't drop them down by the battery. You will need them later.



3. Remove the 2 bolts at the front of the tank. These are under rubber covers that must be removed first.



4. To disconnect the fuel line from the fuel tank, locate the quick disconnect fitting on the left side of the tank.

Push up on the chrome plated portion of the connector. Work the black elbow fitting free while holding the chrome fitting in the up position.



The elbow and attached fuel line should come free with very little effort. This fitting is self sealing however a small amount of fuel may drip for the connector. You may want to put a rag under it to catch any gas.



5. Short Cut. While it is advisable to remove the chrome "Dash Board" from the tank and fully disconnect all wires and lines attached, you can carefully swing the tank around and set it in the seat position. A great deal of care must be taken to insure nothing is scratched or damaged. If you are uncomfortable with this method, please watch the tank video below for complete tank removal instructions.

<https://www.youtube.com/watch?v=TOaxlr8BCgU>



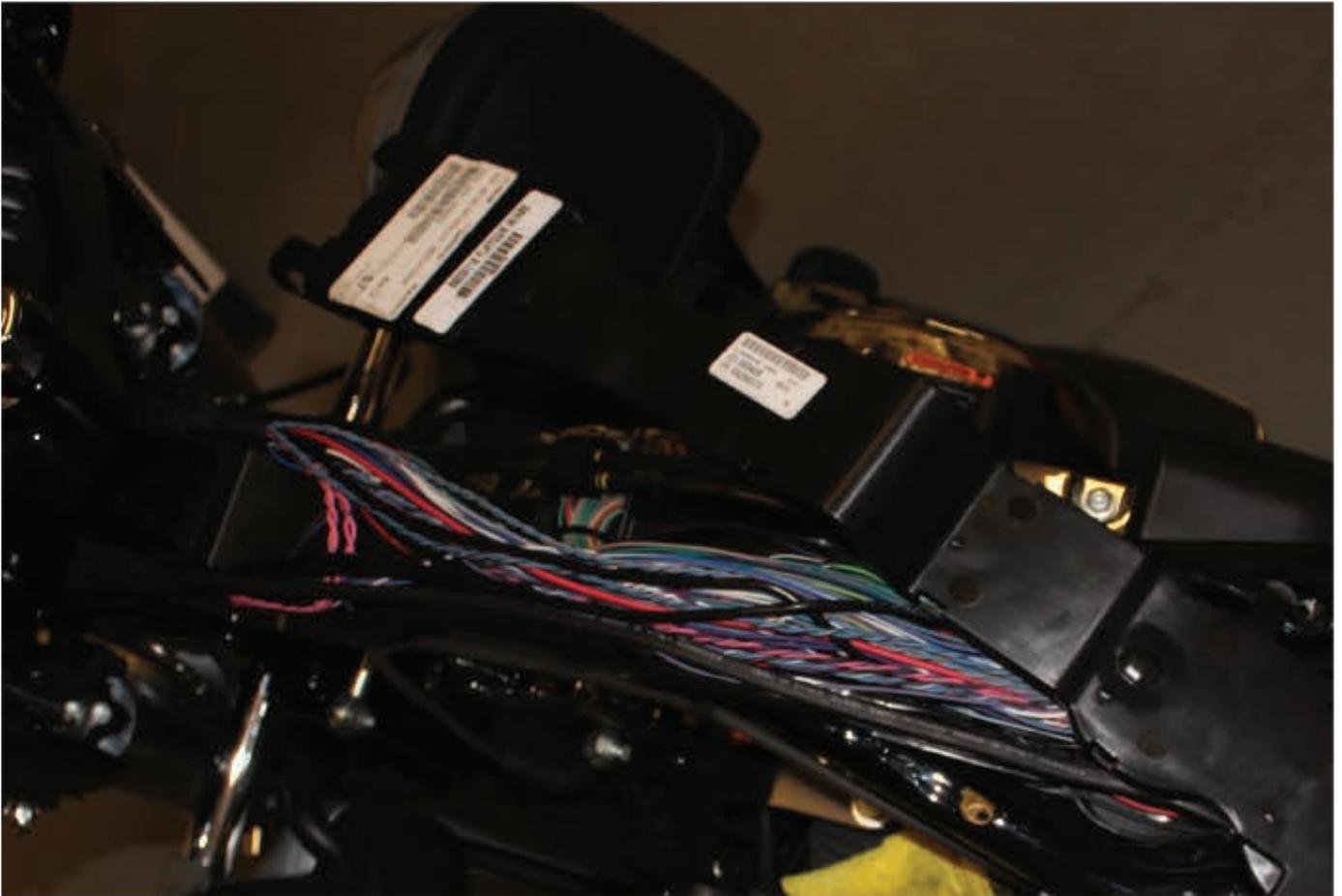
Special Note: This 2014 model has had 3 zip ties added under the tank to secure the brake lines. If your bike does not have these it is recommended that you contact your local dealer and find out if it is necessary. If they are present they must be replaced exactly as they are. ARC Audio takes no responsibility for this modification.



6. Remove the black plastic cover off the top of the wire cover on the back bone of the frame. No tools here, just work it loose from the tabs.

Lay the Provided HD Power Upgrade Harness in with the rest of the wires. Make sure the fuse holder is at the battery end. Nothing special here, just tuck it in place. Make sure you leave enough to make the connection to the battery.

Warning: Remove the supplied fuse from the fuse holder before you begin.



7. This is what it should look like before you put the cover back on.

At this point you can reverse the process, putting the cover back on and putting the tank back in place and secure all the hardware tightly. Don't forget the fuel line. Give it a gentle tug to make sure it is securely connected.

Warning: Do Not Use the Small Power Harness that is also provided in this kit. Only Use the 8 Gauge power harness provided.



8. Remove the 2 highlighted bolts. You may find it helpful to remove the control module (the one with 3 big plugs on it) on top of the battery cover.

Slide the battery cover forward as far as possible. There is a metal tab at the front that it has to clear before it can be lifted up.



9. You have now exposed the top of the battery. The 2 ends of the power harness with the metal ring terminal can now be connected to the battery at this location. Take extra care when working around the positive (+) battery terminal. You should always wear safety glasses when working with the battery.

Just a reminder, the red wire connects to the battery positive (+) and the black wire to the battery negative (-).



Whoops! Did you forget to remove the fuse?

Only install the fuse after ALL your connections to the battery and the amplifier are complete. There is a risk of significant damage and even fire if you forget this step.



10. Remove the 4- T25 Torx head screws at the inside edge of the inner fairing. Note: it maybe necessary to remove the fog lights it equipped.



11. Remove the 3- Philips head screws below the windshield. Warning: The outer fairing is loose and ready to remove. Don't let it fall. It maybe helpful to leave the center (long) screw in place and loose until you are ready to remove the fairing and windshield.



12. Gently pull the outer fair toward you. You will need to lean over the fairing and locate the headlight wiring harness. Disconnect the headlight harness and let it hang. If no aftermarket accessories have been added, you can now remove the fairing. Set it in a safe, out of the way location where it will not be dropped or damaged



13. This is what you should see when your outer fairing is removed. To access the speakers you will need to remove the 8 fasteners that secure the speaker enclosures to the inner fairing. Note: These enclosures are a structural part of the fairing. All the fasteners must be used and tightened when reinstalling the speaker enclosures.



14. Disconnect speaker wiring harness and pop its fastener free from the enclosure. On the right hand side you will need to pull the power port (cigarette lighter) harness off the power port.



15. Remove the 2- T25 Torx head screws that retain the vent assembly and remove it by pulling it forward.



16. Remove 3-7/16" screws (1, 2 and 3). These are an incredible pain to remove. There is a large wiring harness in the way and they are almost impossible to see. Using a 1/4" drive deep socket was the easiest solution for me. A Universal and socket and long extension may work even better if you have it.

Warning: The edges of the black metal bracket are very sharp. Be careful and keep Band-aids handy.



17. Remove 3-3/16" Allen head screws (4, 5 and 6). Nothing special here. You may find a small magnet useful for removing screw 6.



18. Remove the 2-5/32" Allen head screws (7 and 8). The enclosure is not free and ready to be removed.

NOTE: Some models are equipped with CB radios. You will need to remove 1 screw retaining this module to remove the left side enclosure.





The enclosure should be loose and come off freely. If the enclosure does not come off easily don't force it, repeat these steps and insure you have fully removed all fasteners.

Repeat steps 1 through 4 on the left side.



19. After removing the stock speakers, trim any alignment pins on the mounting surface flush with the face of the enclosure.



20. Plug in the new speakers using the original factory connectors. Note: There are 2 sizes of connector. Use the larger, black connector on the larger speaker terminal regardless of the wire color. We have compensated for this elsewhere in the wiring harness.

Mount the speakers using the original hardware. Be careful not to over tighten the screws.



At this point you can begin the process and of reassembling the speaker enclosures. Just follow the steps in reverse order and make sure you don't have any leftover hardware.



21. You now need to assemble the speaker harness. Just plug the adapters to the ends of the harness, matching the connectors with their appropriate mate. Make sure the insulating covers are firmly in place. A shorted wire here will shut down or possible damage the system.



Note: The wire colors will not match. This is by design and should not be changed.



22. You will need to relocate this antenna module if it is equipped with GPS. It is attached with double stick tape. Pop it off and move it up on the bracket to the right.



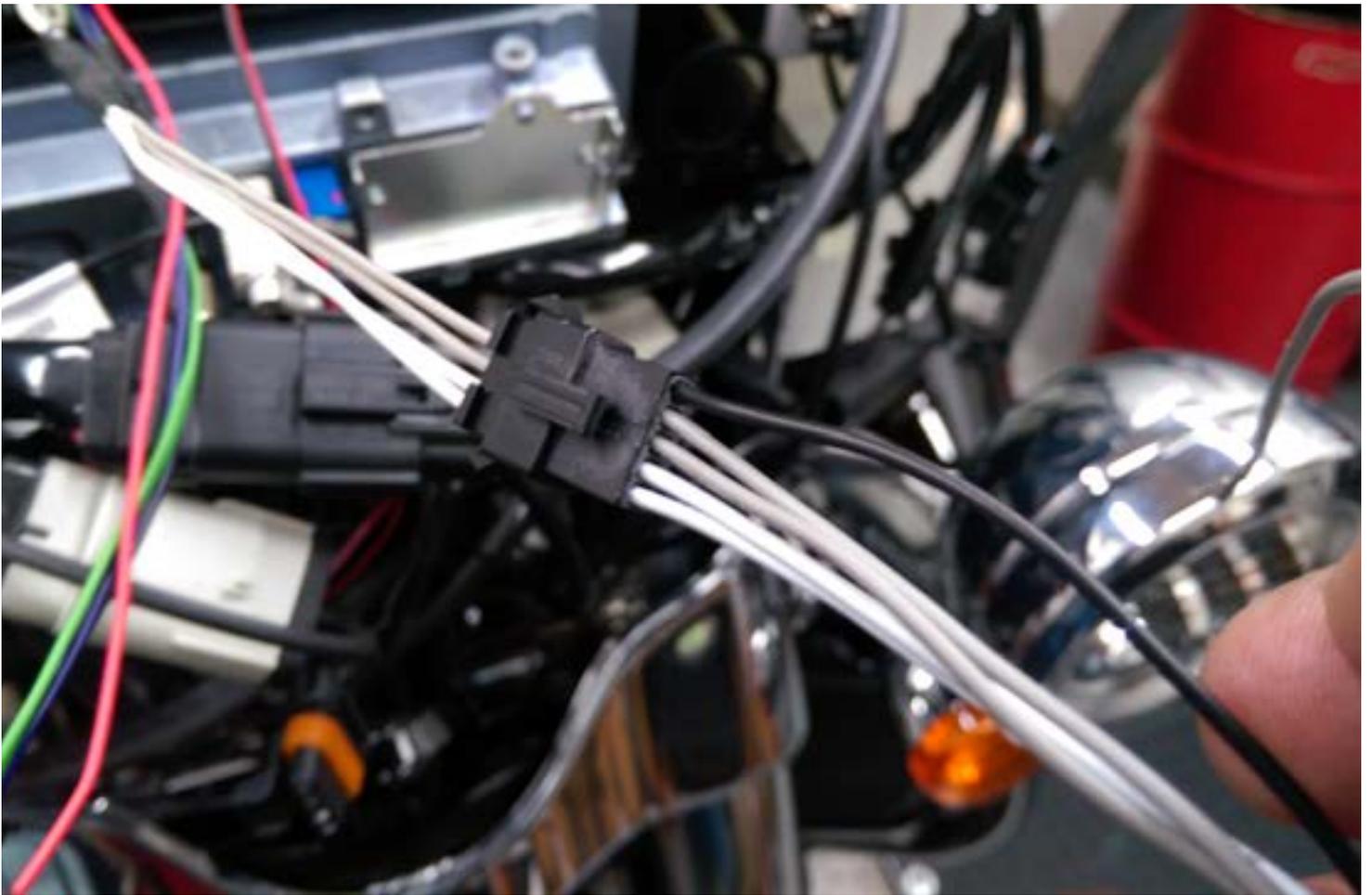
23. This also happens to be the approximat location of the wire we will use for remote turn on. The service manual calls this a "P&A" connector and it is intended to power or trigger accessories like this. There will be an empty plug in the end that will need to be removed. Once that cap has been removed you can plug in the provided orange wire and set it aside.



24. Attach the amplifier to the top of the amplifier bracket using the large Velcro pad. You only get 1 shot with this stuff so be careful.



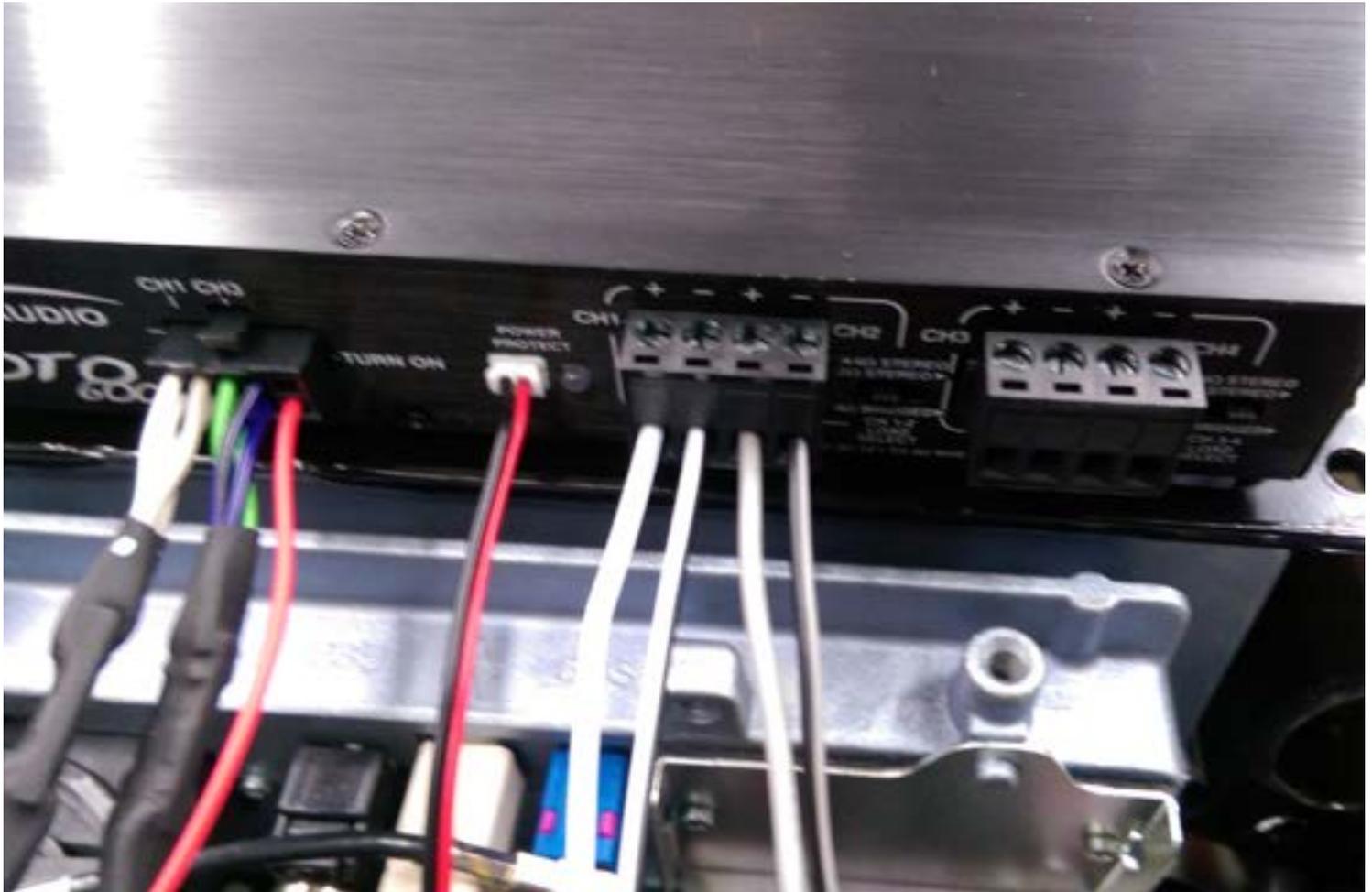
25. Connect the power harness from the battery to the 3 screw terminal block on the end of the amplifier. You did remember to remove the fuse from the harness right? The Red wire goes to the +12V terminal, black to GND and the orange wire from the P&A connects to TURN ON.



26. Connect the black 5 pin plug to its mate on the High Level input plug. Use the matching wire colors (Gray and White) and connect it to the amplifier.

Note: The input selector switch should be set to 2CH. unless the you are installing in an Ultra or Ultra Classic and choose to use the rear inputs. This will require some custom wiring.

Note: The Black wire is not used in this installation.



27. On the end of the speaker harness are 4 stripped wires. Connect them to the 4 screw block terminal on the end of the amplifier with the controls.

Solid White = Left +
White/Black = Left -
Solid Gray = Right+
Gray/Black = Right -

Connect the Red TURN ON wire to the orange P&A wire provided in the kit and plug it into a available P&A connector.

[TOP](#)



28. Apply the protector to the bottom side of the vent assembly. Clean the surface with alcohol and allow it to dry thoroughly. Peel the protective strip from the double sided tape and stick it to the bottom of the vent assembly making sure it is approximately centered.

Supplied with this kit is a tuning guide. Now would be a good time to make any final adjustments to the amplifier.



29. This is what it should look like when it's done. Tie up all the extra wire using the supplied zip ties and reverse the process of disassembly. Everything should do together easily without any need to excessive force. Time to fire it up and listen to it.

Remember that fuse at the battery? Now would be a good time to put in.



Crossover and Level Setting Instructions

6.5" Factory Radio

2 Speaker installation

Adjusting your amplifier is one of the most important steps in properly setting up your new audio addition.

SETTING THE GAINS

Start with the gains all the way down (Figure 1) and turn them to the position indicated in Figure 2.

SETTING THE CROSSOVER

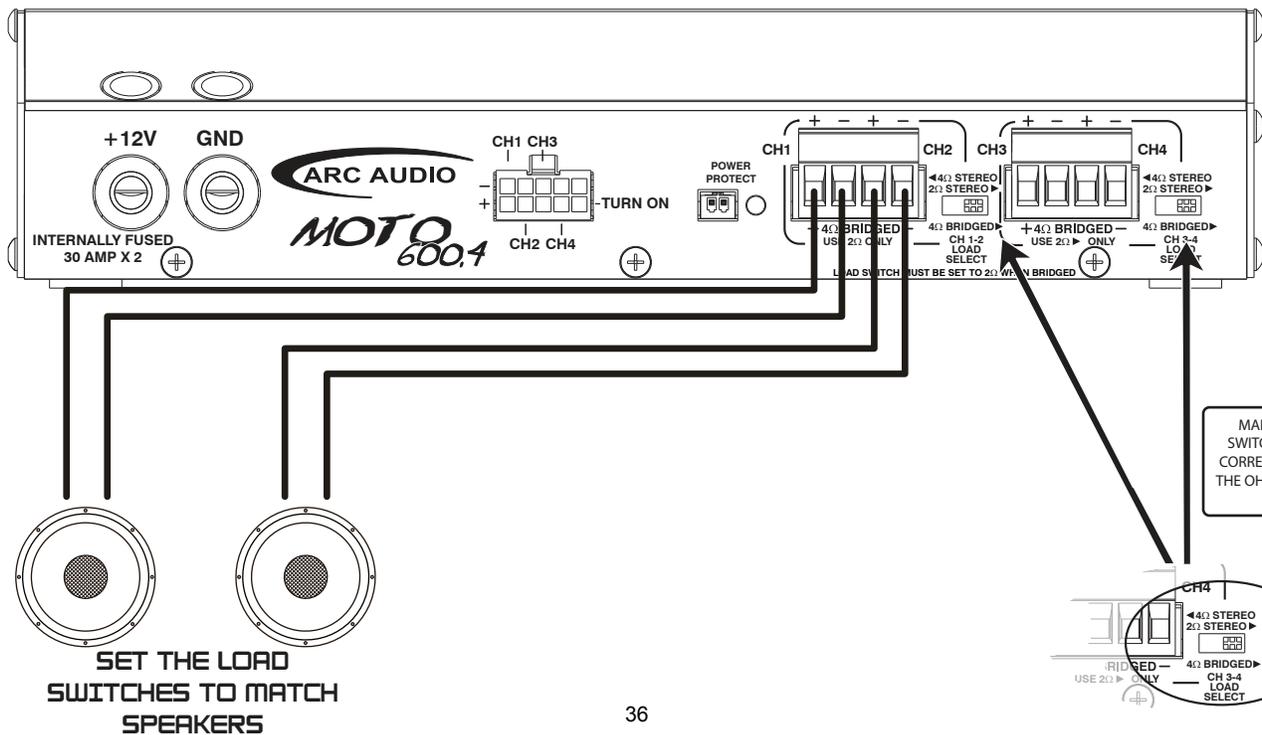
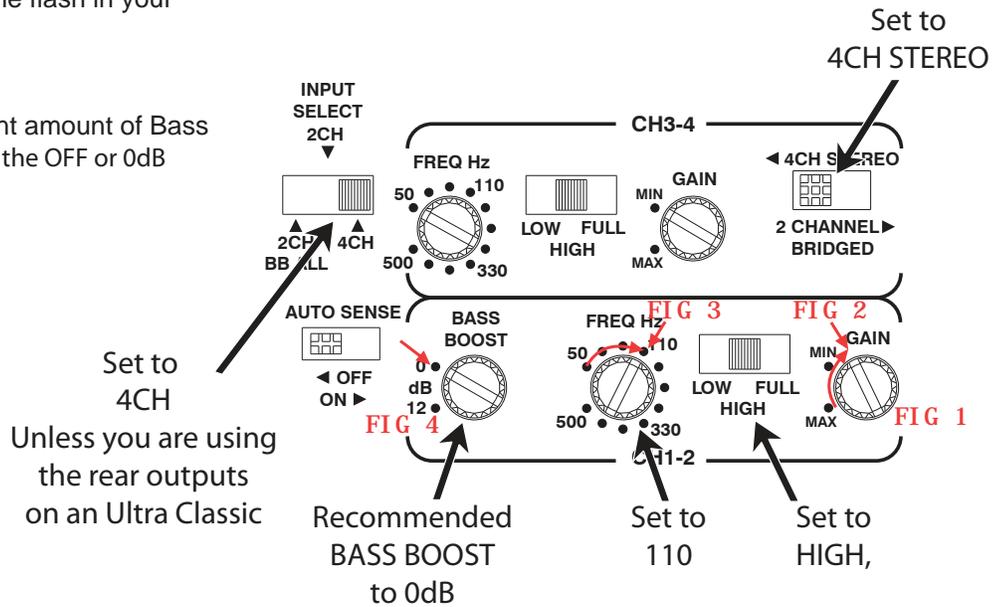
In most cases the crossover will be set to HIGH. The "Crossover Freq" control should be set between 50Hz and 110Hz (Figure 3) depending on the flash in your stock radio.

SETTING THE BASS BOOST

The 6.5" radio already has a significant amount of Bass Boost added. Set the **Bass Boost** to the OFF or 0dB position (Figure 4).

WARNING!!!!!!
 YOU MUST TURN OFF YOUR MOTORCYCLES AUTOMATIC VOLUME CONTROL (AVC) WHEN USING ANY MPAK KIT. FAILURE TO DO SO CAN RESULT IN DAMAGE TO THE EQUIPMENT AND TO YOUR LISTENING EXPERIENCE!!

FACTORY EQUIPMENT NOTICE
 HD factory radio's have been known to clip (or distort) at higher operating levels. ARC Audio recommends, but does not require that operation of the HD factory radio not be done at levels any higher than four bars from Maximum volume to optimize your experience and to ensure you the highest level of dynamic sound quality and performance possible.



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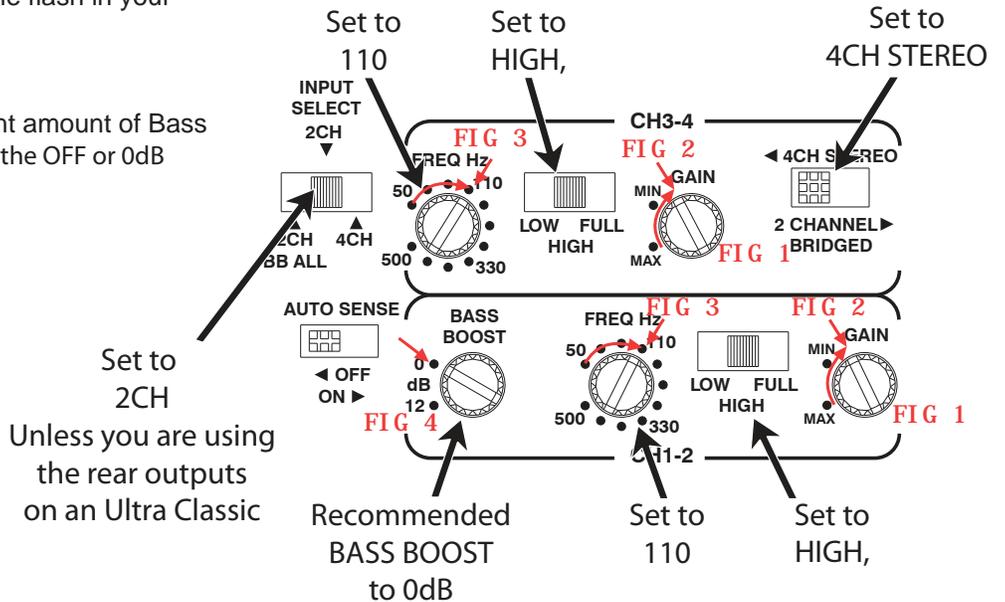
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