## 4 Channel Amplifier / 2 Speaker - Setup utilizing BRIDGED Cicada DSP125.4D Amplifier - FAIRING ONLY SYSTEM

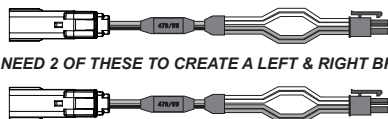### ■ 6.5" Front speakers (CH65.4 - CoAx Horn)

A very typical and simple setup using just the front speaker channels out of the stock HD radio into the amplifier. NOTE: On 2017 and up HD's you will need to "load" the HD radios speaker outputs with 47 ohm / 5 watt resistors for it to properly work. The DSP125.4D amplifer comes with Molex RCA input harness and bare wire output (on Molex's) BUT for this system you need SPECIAL "Y- Adpators" (Qty 2) that we make for signal input. HDFiMY's. As this is a 4 channel Amplifier running BRIDGED/2 channel output (BIG power!!) The more ambitious installer or home DIY'er can research, locate and order all the approriate wiring and connectors.
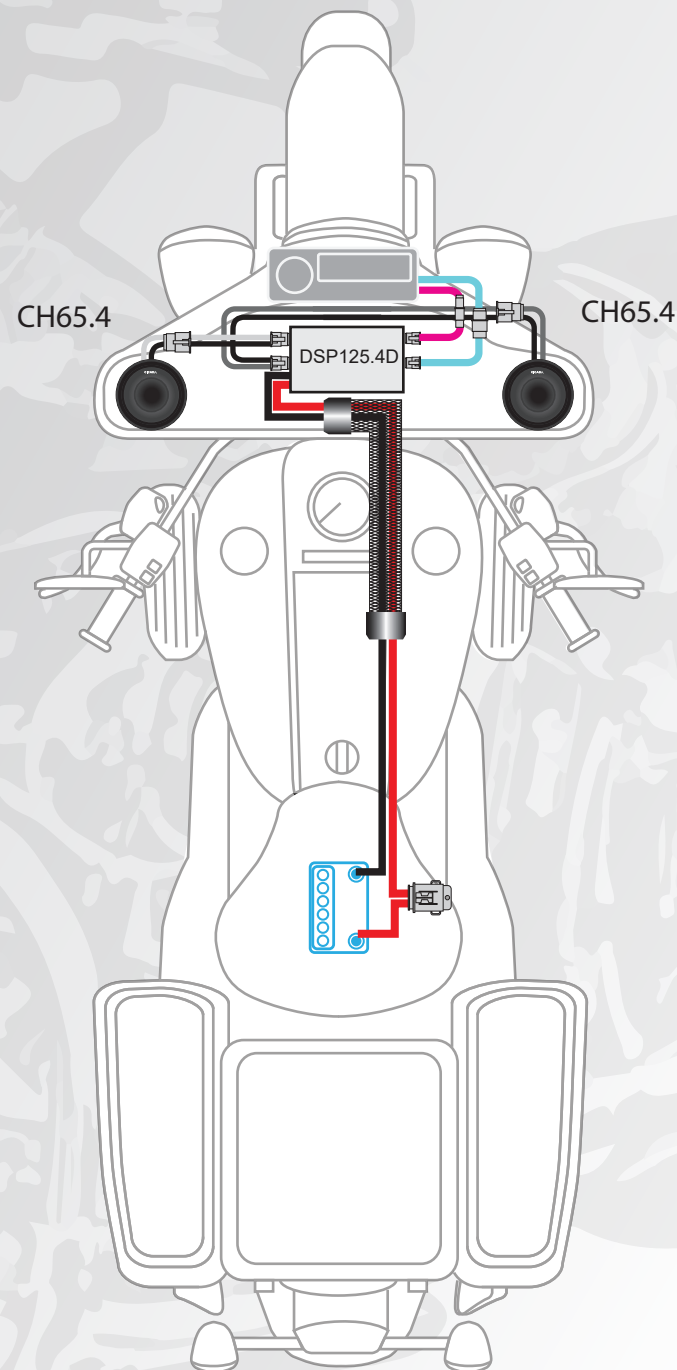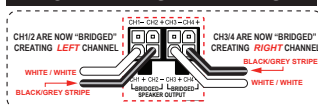
CH65.4

CH65.4

DSP125.4D

———— OR ————

HARNESSES NEEDED FOR THIS INSTALL

FRONT INPUT Y-ADAPTOR WITH HD MOLEX®
WITH 47OHM RESISTOR
Part# HDFiMY

47R/5W

(YOU WILL NEED 2 OF THESE TO CREATE A LEFT & RIGHT BRIDGED OUTPUT)

47R/5W

FRONT SPEAKER OUTPUT
WITH HD MOLEX®
Part# HDFoM

SPEAKER MOLEX®
(ONLY LEFT IS SHOWN) ——— THESE WIRES ARE NOT USED!!!

BLACK/GREY STRIPE
CH2 - CONNECTED FOR BRIDGED -
CH1 + CONNECTED FOR BRIDGED +
WHITE / WHITE

NOTE:BRIDGED WIRING!

CH1/2 ARE NOW "BRIDGED"
CREATING *LEFT* CHANNEL

CH1 + CH2 +CH3 + CH4

CH3/4 ARE NOW "BRIDGED"
CREATING *RIGHT* CHANNEL

WHITE / WHITE
CH1 + CH2 - CH3 + CH4 -
BLACK/GREY STRIPE
BRIDGED
SPEAKER OUTPUT
BRIDGED
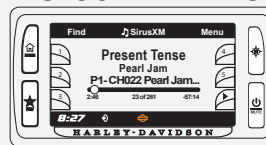SPEAKER OUTPUT
WHITE / WHITE
BLACK/GREY STRIPE

USING THE STOCK DSP125.4D SPEAKER OUTPUT HARNESS AND THE HDFoM (1) CUT THE MOLEX'S OFF THE HDFoM AND USE ONE FOR THE LEFT AND ONE FOR THE RIGHT SPEAKER OUTPUT TO PLUG INTO THE STOCK HD SPEAKER WIRING

Part# HDPG8K

6 FT POWER /GROUND WITH WATERPROOF FUSE HOLDER

CICADA AUDIO

Stock HD radio and wiring used!
(2 Channel out/Stereo)
No need to cut anything!

STOCK HD RADIO

Find ♪ SiriusXM Menu
Present Tense
Pearl Jam
P1- CH022 Pearl Jam...
2:46   23 of 261   -57:14
8:27   HARLEY-DAVIDSON
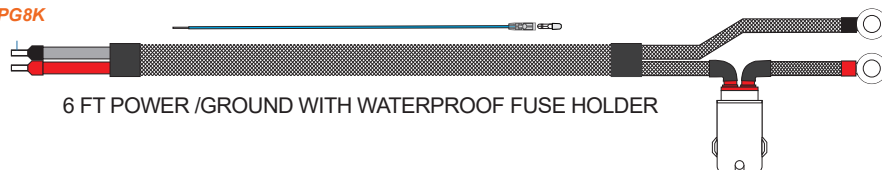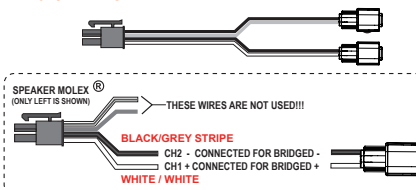
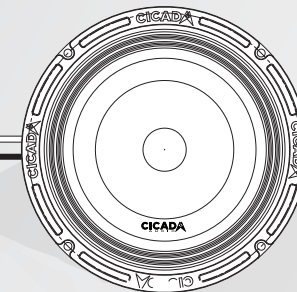**Part# HDFiMY** OPTIONAL :(2 REQUIRED)
FRONT INPUT Y ADAPTOR WITH HD MOLEX®
WITH 47 OHM RESISTOR

NOTE: This system CANNOT FADE ..PERIOD!! You're bridging
a 4 channel amplifier and making it a BIG 2 channel

INPUT SIDE
DSP125.4D AMPLIFIER

1.375" / 34.9mm

INPUT SIDE
DSP125.4D
AMPLIFIER

PART# HDFoM OPTIONAL:
**FRONT SPEAKER OUTPUT
WITH HD MOLEX®**

OUTPUT SIDE DSP125.4D
AMPLIFIER
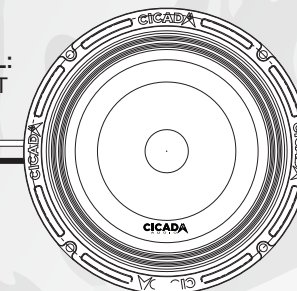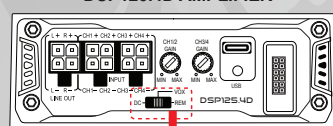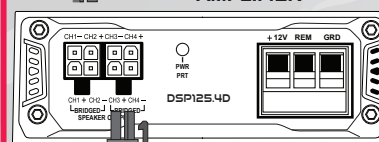
NOTE: Modify the HDRoM
Harness and use one of the stock
Speaker output harnesses that
came with the DSP125.4D
to "BRIDGE" the DSP125.4D

Bottom wires on the MOLEX
are the ONLY wires that
give you a BRIDGED output

(YOU'VE BEEN TOLD THIS
TWICE NOW...SO
GET IT TOGETHER!!
BOTTOM WIRES = BRIDGED)

VOX
DC — REM

WITH NO SWITCHED 12V REMOTE OUT
USE "VOX" AS THE TURN ON SELECTION

BRIDGING 4 CHANNEL AMPLIFIER

CH1 — CH2 + CH3 — CH4 +

**CH1/2 ARE NOW "BRIDGED"
CREATING LEFT CHANNEL**

**CH3/4 ARE NOW "BRIDGED"
CREATING RIGHT CHANNEL**

CH1 + CH2 — CH3 + CH4 —
BRIDGED   BRIDGED
SPEAKER OUTPUT

BLACK/GREY STRIPE

WHITE / WHITE

WHITE / WHITE

BLACK/GREY STRIPE

PART# HDRoM OPTIONAL:
REAR SPEAKER OUTPUT 6 FT
EXTENTION WITH MOLEX®

**FRONT / REAR SPEAKER
OUTPUT MOLEX
ARE THE SAME
COLOR CODE
AND WIRING SETUP**

SPEAKER MOLEX
(ONLY LEFT IS SHOWN)

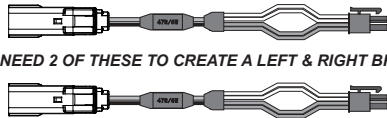THESE WIRES ARE NOT USED!!!

BLACK/GREY STRIPE
CH2 - CONNECTED FOR BRIDGED -
CH1 + CONNECTED FOR BRIDGED +
WHITE / WHITE

CICADA ®
AUDIO

WIRING / HARNESSES

HARNESSES NEEDED FOR THIS INSTALL

FRONT INPUT Y-ADAPTOR WITH HD MOLEX®
WITH 47OHM RESISTOR

Part# HDFiMY

(YOU WILL NEED 2 OF THESE TO CREATE A LEFT & RIGHT BRIDGED OUTPUT)

FRONT SPEAKER OUTPUT
WITH HD MOLEX®

Part# HDFoM

SPEAKER MOLEX®
(ONLY LEFT IS SHOWN) → THESE WIRES ARE NOT USED!!!

BLACK/GREY STRIPE
CH2 - CONNECTED FOR BRIDGED -
CH1 + CONNECTED FOR BRIDGED +
WHITE / WHITE

NOTE:BRIDGED WIRING!

CH1/2 ARE NOW "BRIDGED" CREATING *LEFT* CHANNEL
CH3/4 ARE NOW "BRIDGED" CREATING *RIGHT* CHANNEL

WHITE / WHITE
BLACK/GREY STRIPE
CH1 + CH2 - CH3 + CH4 -
BRIDGED SPEAKER OUTPUT
BLACK/GREY STRIPE
WHITE / WHITE

USING THE STOCK DSP125.4D SPEAKER OUTPUT HARNESS AND THE HDFoM (1) CUT THE MOLEX'S OFF THE HDFoM AND USE ONE FOR THE LEFT AND ONE FOR THE RIGHT SPEAKER OUTPUT TO PLUG INTO THE STOCK HD SPEAKER WIRING

Part# HDPG8K

6 FT POWER /GROUND WITH WATERPROOF FUSE HOLDER
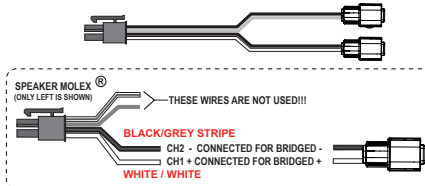
SPEAKERS IN FAIRING

CH65.4 - 4 ohm
6.5" CoAx Horns
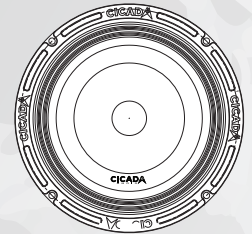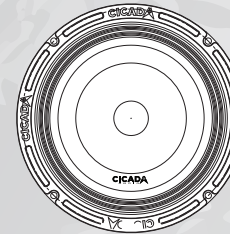
600 WRMS SYSTEM PARTS LIST / COST

CICADA® AUDIO	RETAIL	QTY	SUB TOTAL
1 DSP125.4 - 4 Channel Amplifer W/ DSP	$550	1	$550
1 PAIR - CH65.4 4 ohm - 6.5" CoAx Horn	$500	1	$500
1 HDPG8K Power Kit	$ 60	1	$ 60
HDFiMY - HD Input Y Adaptor Molex	$ 30	2	$ 60

Labor not included

TOTAL $1,200

AMPLIFIERS IN FAIRING

8.875" / 225.4mm
4" / 101.6mm

CICADA DSP125.4D

CICADA DSP125.4D SOFTWARE - QUICK OVERVIEW

THIS SYSTEM IS SPECIAL AS IT IS 2 - DSP125.4D AMPLIFERS BRIDGED MONO /STEREO
THERE IS A LOT OF POWER TO DEAL WITH AND GETTING INPUT/ OUTPUT CORRECT IS SUPER IMPORTANT

This is the start page and comes up only for a few seconds. The most important thing here is to know which version you have and make sure it is the most current version
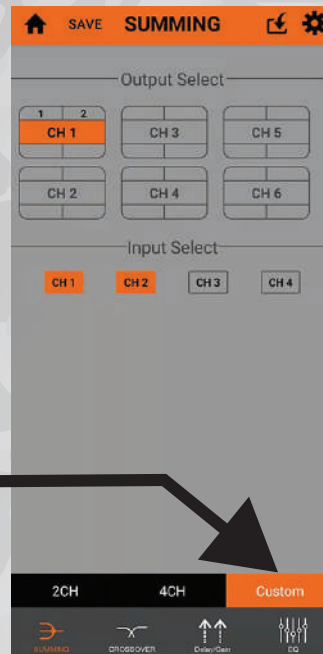
First thing to do is select what INPUT you are doing? 2 channel? Or 4 channel?

Select that and move to "Delay/Gain" page

NOTE: Once you select 2 channel (for example) NOTICE how all channel "INPUTS" are paralled Makes life easy!!

Most important thing to do on this page is to "preset" the gains of each output channel - BEFORE you power up the system!!
NOTE: ALL channel gains are set at -6dB
This keeps you from blowing up your speakers!
YOU CAN CHANGE LATER!

IMPORTANT!

NOTE: Channels are linked" making it easier to set gains, ALL at one time! Cool, easy feature ..make sure to use it!!

NOTE: MASTER GAIN IS @ -6dB

STARTPAGE

NOTE: On this system how you set up the input is EVERYTHING! You must sum CH 1 and 2 to get a bridged LEFT channel You MUST SUM CH3/4 to get a bridged RIGHT channel. The cool thing with the Cicada DSP125.4D is that is all you have to do! NO "Y Adaptors" No one does that but CICADA!!! (thank you...thank you very much!)

2ND - Click CH1
3RD - Click Input Select CH1/CH2
LEFT channel is now summed and the speaker output can be bridged *TOO easy!!*
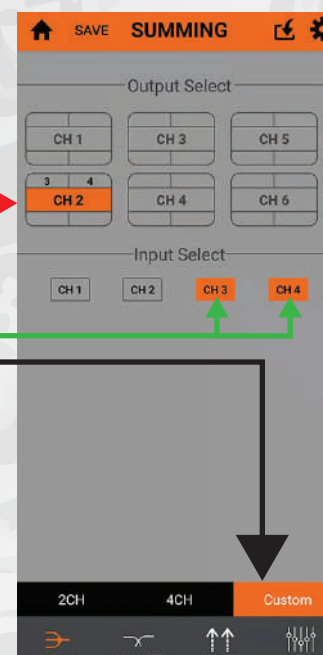
1ST - Click "Custom"
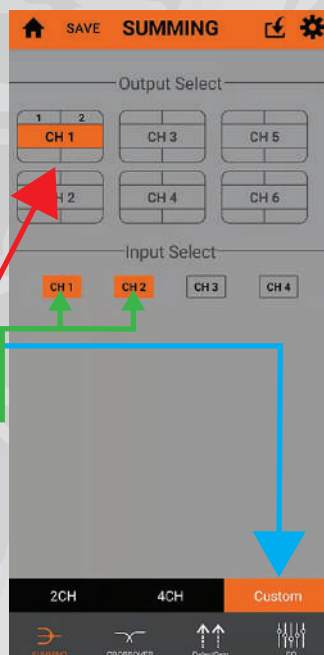
NOTE: You must ALSO sum CH 3 and 4 to get a bridged RIGHT channel. Since you need STEREO. Again NO "Y Adaptors"

1ST - Click "Custom"
2ND - Click CH2

3RD - Click Input Select CH3/CH3
RIGHT channel is now summed and the speaker output can be bridged

**IT'S ONLY 5 PAGES YOU HAVE TO DEAL WITH!! ...BUT THIS IS WHERE ALL THE MAGIC HAPPENS.
THIS IS THE MOST IMPORTANT PART OF THIS AMPLIFER! EVERYTHING HAPPENS HERE**

This is the start page and comes up only for a few seconds. The most important thing here is to know which version you have and make sure it is the most current version

First thing to do is select what INPUT you are doing? 2 channel? Or 4 channel?
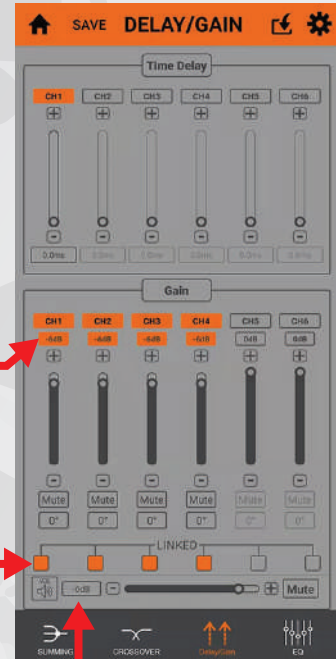
Select that and move to "Delay/Gain" page

NOTE: Once you select 2 channel (for example) NOTICE how all channel "INPUTS" are paralled Makes life easy!!

Most important thing to do on this page is to "preset" the gains of each output channel - BEFORE you power up the system!!
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This keeps you from blowing up your speakers!
YOU CAN CHANGE LATER!

IMPORTANT!

NOTE: Channels are linked" making it easier to set gains, ALL at one time! Cool,easy feature ..make sure to use it!!

NOTE: MASTER GAIN IS @ -6dB

This is FRONT Speaker CROSSOVER page. Here you MUST high pass all "full range" speakers. Since, in reality, NO 6.5 inch speaker is TRULY "full range. At low levels? Yes(at LOW levels). At the levels YOU want to play at? NO WAY! To the right we are "High Pass"ing the 6.5" speakers.
**Notice the frequency.**
This is as LOW as you want to "High Pass" ANY "Pro Style" 6.5" speaker. No matter what JIVE BS they tell you! REMEMBER...there is Physics at play here..
No Fairies, Pixie Dust or Unicorns.
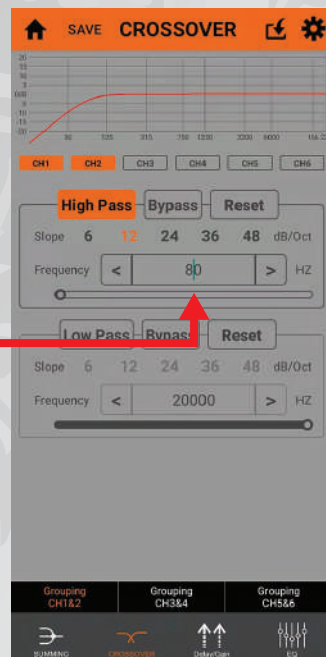
This is the CROSSOVER page. Here you MUST high pass all "full range" speakers. This is the rear "BAG" and a 6" X 9" Pro Style Speaker. Even though it is a 6"X 9" and MORE FULL range than a 6.5". You still will have issues with trying to get REAL low fre quencies out of your bike. And at the levels YOU want to play at? NO WAY!!! To the right we are "High Pass"ing The 6"X 9"speakers, Notice the frequency.
This is as LOW as you want to "High Pass" ANY "Pro Style" 6"X 9" speaker. No matter what JIVE BS they tell you! REMEMBER...there is Physics at play here..
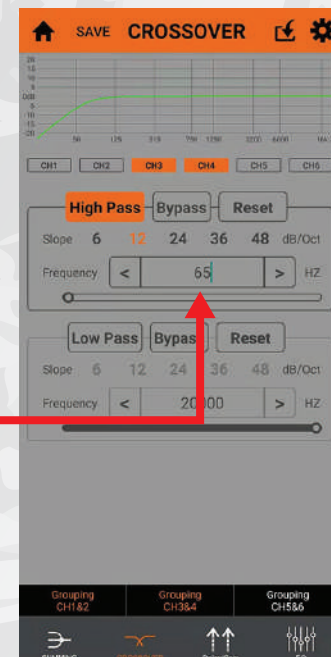
**This is all about EQ inital setup and using the "PreSets" we've designed to solve "Flashing" issues**

This is EQ (equalizer) page. On this page you can select which channel you are going to EQ. At the bottom of the page there are "Grouping" buttons. You can Group just CH1&2,OR Group CH3&4, OR CH5&6. Or even Group ALL channels CH1/CH2/CH3/CH4/CH5/CH6. Whatever you need to do to help you speed up setup/tuning. Lets start off with grouping CH1/2 (typically on a HD this is the Front Fairing speakers- usually 6.5 inch speakers) These are "Grouped" for intial the EQ settings (that change as you go on!) There is something important to take into consideration. Is your HD 2014-18 Flashed? Or not "Flashed"! This is a SUPER important piece of information. If you do not know what this means there is a page on our website that goes thru all of this as it is WAY beyond the scope of this System Design Set-Up sheet to go into depth on. For the rest of this setup we are going to ASSUME you understand what "Flashing" is and what it effects. With the DSP125.4D we have built-in "Presets" that overcome the crazy EQ that HD has built into their stock radios. IF you do NOT want to "Flash" your computer on your bike (typically an additional $100-200!!) you don't need to! At least...not if you have a DSP125.4D amplifier / Processor.

Select a Preset and go from there.

NOTE: Remember that these presets are NOT the End All.. Cure All !!

You'll still need to EQ the system out. All these presets do is get you closer to flat BEFORE you add your pinch of salt (EQ lingo for your preference!)

MAKE SURE TO SAVE THESE SETTINGS...
*BEFORE POWERING UP YOUR SYSTEM*
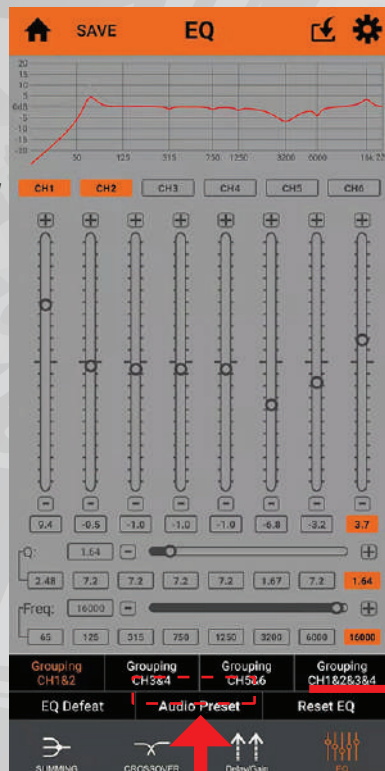
Audio Preset Select

This page is where you select what year bike you have and what speaker system. It REALLY makes a difference as we not ONLY flatten the CRAZY HD radio EQ, but we have added a little EQ of our own (since we've done this for just a couple days - like...40 yrs!) We've picked the most common system (CoAX Horns) and have EQ'd (DE-EQ'd?) the stock HD "Boom" EQ curve OUT and added a little pinch of our own "Special" salt EQ (Himalayan??) ONLY select these Presets if you KNOW that your bike has not been "Flashed" already.

WARNING!!- NOT HAVING YOUR BIKE "FLASHED" OR USING ONE OF OUR PRESETS CAN RESULT IN YOU BLOWING UP YOUR BRAND NEW SPEAKERS!!!

TYPICAL EQ COMING OUT OF STOCK HD RADIOS
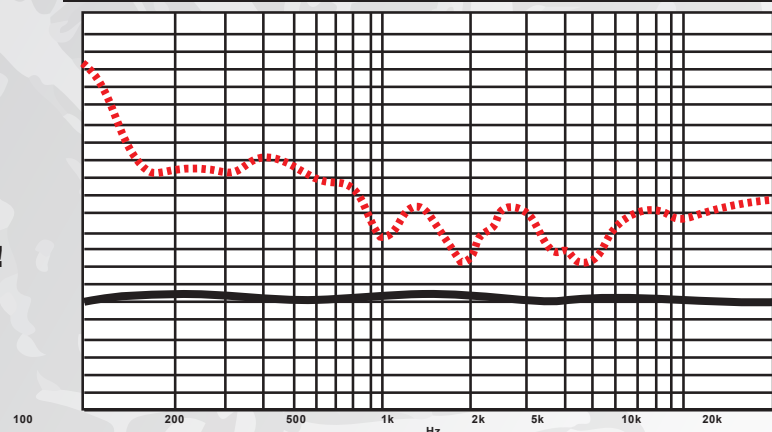
········ **Factory Harley-Davidson® Boom!™ EQ Curve**
———— **Flattened EQ with DSP AMP Software Preset**