

# HOGTUNES

*Audio Solutions For The Great American Cruiser*

## “Speaker Open” Code in HK Radio Diagnostic Screen With Amp Installed

The factory radio in 2006+ model touring bikes has several advanced features built in, including the ability to “sense” the load, or “ohms” of the speakers. The factory system has the radios speaker wires powering the speakers directly as seen below. If a speaker fails, the load of that speaker no longer exists, and the radio will “shoot a code” seen in the radios diagnostic mode screen that will suggest a speaker is “open”. This code would also be seen if the HD Dealers “Digital Technician” or the new hand held “code scanner” is plugged in to the bike.

If an amplifier is put in, the speakers load is no longer powered by the radio. The radios speaker wires are used to put music into the amplifier, and then the amplifier powers the speakers as seen below. Since there is no longer a speaker “load” on the factory speaker wires, a false code will be sent by the radio to its diagnostic screen, the Digital Technician, or the hand held code scanner. This is common to any aftermarket amplifier that uses speaker wires to send music from the radio to the amp, and is not an issue of any kind! If you are a dealer, or have a dealer telling you your aftermarket amp is causing trouble codes, this document should explain why there is really nothing wrong.

