PHOENIX GOLD

Quick Start Guide
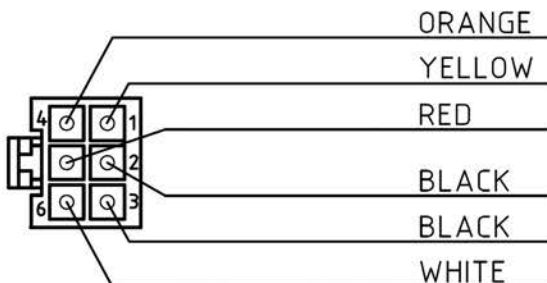## DSP8.8

PHOENIX GOLD

General Instructions:
Before starting installation of the DSP8.8, disconnect the vehicle's negative battery terminal to prevent damage to the unit, or possible fire and/or risk of injury. For the best performance and to ensure full warranty coverage, we highly recommend getting this product installed by an authorized PHOENIX GOLD dealer. Please only use the enclosed specified harnesses for proper installation of the DSP8.8. The use of other harnesses could result in permanent unwarrantable damage of the processor, and/or the source and connected high quality audio equipment.
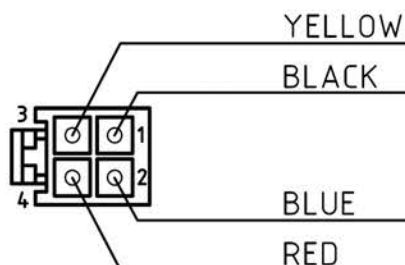
Connect all system power, input and output signal wiring before going to the next steps.
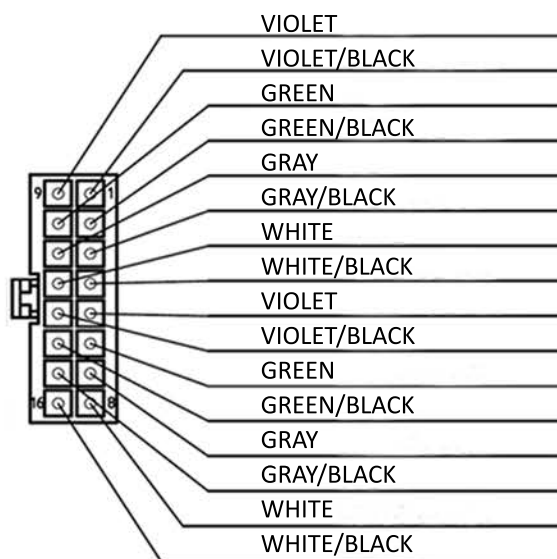
AUX-IN HARNESS

ORANGE
YELLOW
RED
BLACK
BLACK
WHITE

PIN	COLOR	FUNCTION
1	YELLOW	PHONE MUTE
2	BLACK	CH 2 -
3	BLACK	CH 1 -
4	ORANGE	NAV MUTE
5	RED	CH 2 +
6	WHITE	CH 1 +

POWER HARNESS

YELLOW
BLACK
BLUE
RED

PIN	COLOR	FUNCTION
1	BLACK	GROUND
2	BLUE	REMOTE OUT
3	YELLOW	12v + BATTERY IN
4	RED	ACC/REMOTE IN

HI-LEVEL HARNESS

VIOLET
VIOLET/BLACK
GREEN
GREEN/BLACK
GRAY
GRAY/BLACK
WHITE
WHITE/BLACK
VIOLET
VIOLET/BLACK
GREEN
GREEN/BLACK
GRAY
GRAY/BLACK
WHITE
WHITE/BLACK

PIN	COLOR	FUNCTION
1	VIOLET/BLACK	CH 8 -
2	GREEN/BLACK	CH 7 -
3	GRAY/BLACK	CH 6 -
4	WHITE/BLACK	CH 5 -
5	VIOLET/BLACK	CH 4 -
6	GREEN/BLACK	CH 3 -
7	GRAY/BLACK	CH 2 -
8	WHITE/BLACK	CH 1 -
9	VIOLET	CH 8 +
10	GREEN	CH 7 +
11	GRAY	CH 6 +
12	WHITE	CH 5 +
13	VIOLET	CH 4 +
14	GREEN	CH 3 +
15	GRAY	CH 2 +
16	WHITE	CH 1 +

LED Status
Red: Error or clipping
Green - Solid: DSP power on
Green - Blinking: Data transfer
Yellow: USB connection established

Software/App Locations and Installation

iOS: Download and install the DSP8.8 app from the App Store
　　　　DSP8.8 - for iPad (Full version for professionals to set up DSP8.8)
　　　　DSP 8.8RC - for iPhone (RC version for end users who will not need access to setup menu)

Android: Download and install the DSP8.8 app on Google Play
　　　　DSP8.8 - for tablet (Full version for professionals to set up DSP8.8)
　　　　DSP 8.8RC - for smartphone (RC version for end users who will not need access to setup menu)

MAC/Windows PC: Download software and USB driver via at **phoenixgold.com/dsp**
　　　　Windows XP, 7, and 8 users will need to install the USB drivers
　　　　Windows 10 and Mac users do not need to download the USB drivers

Setup Instructions for Wi-Fi for iOS/Android:
When connecting via the DRC/Wi-Fi module, a connection to this module must be established via the Wi-Fi settings of your smart device. Activate the Wi-Fi network search on your smart device, and search for "PhoenixDSP" network. The default password to the network is "**PGDSP8.8**". This connection process may take 30-90 seconds before the (√ PhoenixDSP) appears. When this symbol appears, a Wi-Fi connection has been established and connection via the DSP8.8 app to the DSP is now possible. To activate communication on the app, simply press the power icon and select "connect" on the pop-up window and the Wi-Fi logo will change from "**Wi-Fi not connected**" to "**Wi-Fi connected**". The power icon, image A below, will also change from gray to orange. When connected to the DSP8.8, the Phoenix Gold icon, image B below, will blink every time data is sent between the smart device and the DSP8.8. The DSP8.8 is now ready for system configuration to begin.

Setup Instructions (MAC/PC):
When connecting the DSP8.8 to a laptop/desktop computer, a connection must be made via Wi-Fi or by connecting the PC port using a micro USB cable. To activate communication on the DSP8.8 software, by the power icon and select "connect" on the pop-up window. The power icon, image A below, will also change from gray to orange. When connected to the DSP8.8, the Phoenix Gold icon, image B below, will blink every time data is sent between the computer and the DSP8.8. The DSP8.8 is now ready for system configuration to begin.

A. Power Indicator Icon　　　　　　　　　　　　　　B. Data Transmitting Icon

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Follow These Steps to Properly Configure Your DSP8.8

Source input selection: There are 5 input sources available for use. RCA, HI-LEVEL, AUX, Stream, and Toslink. The RCA, HI-LEVEL, and AUX sources have sub menus that allow the selection of input configurations and independent channel level adjustments to fine tune the input source and prevent clipping. These sub menus can be accessed by right-clicking on PC, double-clicking on MAC or long pressing the input's icon on tablets. Please remember to disable any source that isn't in use.

Channel configuration: This allows customization of channel linking, alias (name), muting, and type (normal or sub). These sub menus can be accessed by right-clicking on PC, double-clicking on MAC or long pressing the channel's icon on tablets.

Presets: A total of 6 presets can be stored in the DSP8.8. Presets can be managed by right-clicking on PC, double-clicking on MAC or long pressing the preset's icon on tablets. You have the option to import, export, copy, store, change the title and factory setup.

Crossover set-up: Each channel has an independent fully adjustable crossover. Filter selections of Butterworth, Bessel, and Linkwitz-Riley (0-30/dB). Default crossover point and slopes are set up to prevent damage to the system during the testing phase. CH1/2 HP @3.2K 12dB, CH 3/4 LP @3.2K 12dB HP @80HZ 12dB, CH 5/6 LP @3.2K 12dB HP@80HZ 12dB CH 7/8 LP @80HZ 12dB.

Time delay: Can be set per output channel by manual adjustment or by using the automatic calculator built in the app. Delay can be adjusted by ms, in, or cm with a total delay range of 0 to 14.57ms per output channel.

Out level: 0 to -15dB per output channel.

Parametric EQ: 30 band parametric per output channel. Each band can be adjusted from +10dB to -10db along with Q width of 1-15 (4.5 is the default).

Wi-Fi Stream Music via iOS to DSP8.8
1) Establish a Wi-Fi connection to DSP8.8 and press the power icon to begin communication.
2) Select "Stream" as the source input.
3) Swipe up on the screen to reveal the "control center". Swipe left to access the "now playing" screen, along with the Apple "Airplay" function and select "PhoenixDSP" as the target device.
4) Open iOS music player or your Hi-Res music app of choice and select desired title or disc and press play. Hi-Res player apps allow files up to192kHz/24bit to be streamed.

Wi-Fi Stream Music via Android to DSP8.8
Note: Function may vary depending on device and Android version
1) Establish Wi-Fi connection to DSP8.8 and press the power icon to begin communication.
2) Select "Stream" as the source input.
3) Open any music or Hi-Res music app of choice that is capable of casting music for DLNA or UPnP and select "WiMusic" as the audio device, then select the desired title or disc and press play. Hi-Res player apps allow files up to192kHz/24bit to be streamed. **We recommend Bubble UPnP, iMediaShare, and VLC due to their ability to stream Hi-Res audio files. There may be other apps to choose from, but they must clearly state that the app supports the DLNA protocol.**

DRC (Dash Mount Remote)
Rotary Knob: The default function of the rotary knob is master volume adjustment. Pressing the rotary knob for one second will mute the master volume, and the DRC's LEDs will change to an alternate color. Pressing the rotary knob for 3 seconds will switch the function to subwoofer level adjustment. The LEDs will change to green during sub level adjustments. After 10 seconds, this mode will timeout and return the rotary function back to master volume.

Button 1 - Wi-Fi/Dimmer Status: The default function is Wi-Fi communication status. The LED blinks during this process. Once pressed, the LED will be solid and this will be LED dimmer adjustment. Use the rotary knob to adjust the LED brightness. Pressing button 1 again will exit dimmer mode.

Button 2 - Preset Up (+): One press will switch to the next preset stored in the DSP's memory by 1 position (1->2->3, etc.). If the selected preset is not stored, it will be skipped. The LED for the corresponding preset is turned on as an indication of what preset has been selected.

Button 3 - Preset DOWN(-): One press will switch to the previous preset stored in the DSP's memory by 1 position (3->2->1, etc.). If the selected preset is not stored, it will be skipped. The LED for the corresponding preset is turned on for an indication of what preset has been selected.

Buttons 4, 5, and 6: These are direct source input assignments and can be programmed via the remote icon on the app for IOS or Android/PC/MAC software. By default they are set to:
Button 4 - RCA
Button 5 - Stream
Button 6 - TOSLINK