#### **TROUBLESHOOTING**

Q. The audio output is not very loud

**A**. Make sure that the volume control on the COGA handset is turned up. Make sure that the master volume control on the back of the amplifier is turned up. The master volume can be adjusted lower once everything is OK.

Q. I am only hearing 1 channel of my MP3 or other audio source.

**A**. You must use two horns to hear both channels. Refer to "Dual Horn Speaker Wiring"

Q. If I connect the amplifier directly to the battery will it drain the battery?

**A**. If properly connected, No. If the REM terminal should be connected to a 12V source that turns off when the ignition switch is turned off, so that the amplifier does not take power when the ignition is off.

Successful

**Q**. the audio output "breaks up" occasionally.

**A**. Make sure power connections are tight and you are using heavy gauge wire.

Q. The green Power LED blinks

A. This is normal and indicates that the amp is operating at maximum capacity.

#### **SPECIFICATIONS**

Power supply voltage: 12V DC (range from 11.5V to 14.4V)

• Total harmonic distortion: ≤ 0.4%

Per Channel Output Power: 20W RMS, 25W max

Total Output Power: 40W RMS, 50W max

Output impedance: 4 ohm

• Frequency response: 20 Hz to 30,000 Hz

Signal to noise ratio: ≥ 80dB
 Stereo separation: ≥ 45dB

Automotive type fuse: 10 Amp



# COGA-AMP402

# 2 CHANNEL 40W POWER AMPLIFIER

## **INSTRUCTION MANUAL Rev 2**

#### PREPARATION BEFORE USE

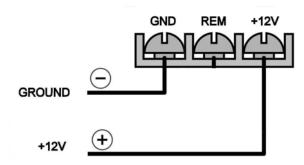
Before you install the amplifier, carefully read all instructions. The quality of installation will affect the system's performance and reliability. When you evaluate the complexity of the installation, you may well decide to seek professional service. Any car stereo installation center should be able to provide such services.

- Be sure you have a 12V DC, negative-ground electrical system.
   This is the most common power configuration in an automobile.
   Some golf carts and truck vehicles provide different voltages, please check first. Applying a voltage in excess of 12V may cause damage to the unit and will void the warranty.
- Before you mount the amplifier, temporarily connect the amplifier and test to be sure it works. Do not permanently mount the amplifier until you are sure the connections are correct.
- Keep the power supply and speaker wires as short possible as to minimize power loss and provide higher audio output from the system. Be sure that the cooling fins of the amplifier are in free air and are not against a panel or other surface.

**WARNING:** Do not touch the amplifier or place flammable objects near it when operating. The amplifier can get very hot while in use.

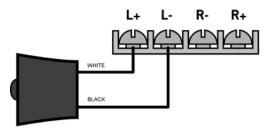
#### **POWER AND GROUND WIRING**

Connect the +12V terminal of the amplifier to the positive, "+" terminal of the vehicle battery, and the GND terminal of the amplifier to the ground or the negative, "-" terminal of the vehicle battery. Use 14 gauge (or heavier) wire.



### SINGLE HORN SPEAKER WIRING

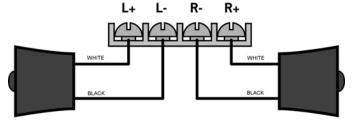
The standard configuration consists of a single 4-Ohm Speaker.



When used with the COGApa handset, the same audio signal is applied to both channels so it does not matter which output the speaker is connected to.

### **DUAL HORN SPEAKER WIRING**

The amplifier can drive two speakers for louder output. When connecting two output devices, it is essential to observe proper polarity. That is, the left and right channels must be connected with identical polarity. If the polarity is reversed there may be cancellation resulting in a lower output volume.



## .COGApa HANDSET INPUT



Connect the COGApa handset directly to the amplifier using the supplied extension cable to the COGAPA connector on the amplifier.

## **POWER INDICATOR**

The Green POWER LED will come on when power is applied to the amplifier. It will BLINK as a warning when the max output power has been achieved.



#### LEVEL CONTROL

After proper installation, adjust the LEVEL control for desired sound quality and volume.

### **AUDIO INPUT Connections**

The amplifier system can also amplify your favorite audio source. Connect the audio into the RCA connectors located on the rear of the amplifier unit.



When the R and L audio source inputs are used, the Dual Horn or output wiring must be used to be able to hear both audio channels

Note: When using the Audio Input connections, the REM terminal on the amp must be connected to a +12V source, which is switched on only when the ignition is on. Your amplifier will be on and drawing current when there is 12V applied to the REM terminal. It is very important to ensure adequate airflow around the amplifier to avoid overheating if you are using the REM terminal.