



Audiopipe®



Full Range Class D Amplifier
APT-V-500.2/1000.2/600.4/1000.4



User's Manual

www.audiopipemarine.com

WARNING

We build all Audiopipe products to play at high volumes for extended periods of time. Your ears however are not designed for high volume listening. This product can easily generate high volumes that can permanently damage your hearing. We urge you to limit your exposure to very high volume sound. You may also find your state has laws governing the volume of an audio system. Please be aware of all local and state laws in your area. A properly tuned and operated audio system will deliver years of enjoyment when used properly.

INSTALLATION INSTRUCTIONS

Audiopipe amplifiers are designed for easy installation. To ensure proper installation of your new purchase please follow all the suggestions listed below. If you do not have experience with marine electrical and mechanical systems, contact a professional installer. Paying a qualified installer is almost always cheaper than paying a dealership to repair your boat.

LOCATING THE AMPLIFIER

The amplifier must be securely mounted to a solid surface. Please select a dry location to mount your amplifier. All Audiopipe products are designed to operate in humid environments however direct contact with water can damage the electronics. Do not mount the amplifier to any area that may have excessive vibration (like a subwoofer enclosure). Position the amplifier in an area that receives sufficient airflow for proper heat dissipation.

SUPPLYING ENOUGH POWER

The Laws of Nature

Your amplifier does NOT make power; it converts power, or current, from your boats electrical system and converts it into high power musical energy. If the amp can't get all the power it needs it will not produce its full output. Your Audiopipe amplifier will produce full output longer than other amplifiers on the market today. Should your voltage or current drop too low the amplifier will drop below the rated output. Make sure your boats charging system is in good working order. Any high performance audio amplifier will increase the demand on your alternator and battery. If you are unsure of your battery or alternator power, have your charging system checked by a professional technician.

RUNNING THE WIRING CABLES

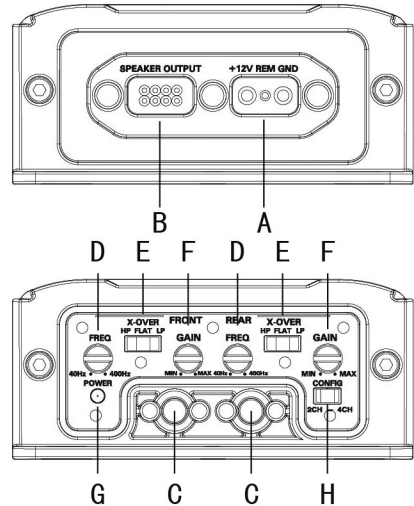
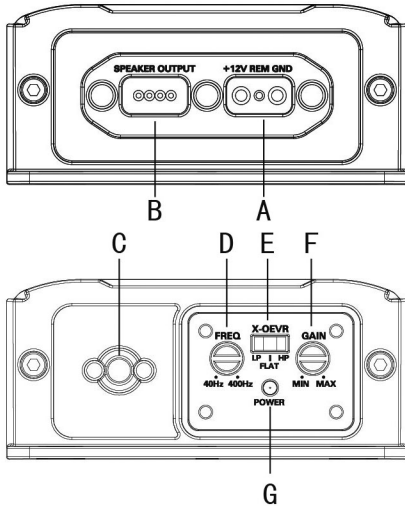
****Always keep the signal cable and the power cables separated to prevent the possibility of inducing noise into the system****

Carefully run the power and the signal cables through the boat. Always keep all the wire tight and tied down to prevent the power wire from shorting and reduce the risk of fire. A 4 AWG or larger wire should be used for power and ground connections. We recommend a fuse to be installed on the power wire within 18 inches of the battery for safety.

LIMITED WARRANTY

Audiopipe warrants this product to be free of defects in material of workmanship for One year from the date of purchase. Audiopipe warranty applies exclusively to the original purchaser and is not transferable. The Amplifier must be purchased from an Authorized Audiopipe dealer.

FRONT PLATE



A. Power input terminal

+12V Using the proper fuse holder or circuit breaker, connect this wire to the 12v battery terminal. Keep the connection wire length as short as possible.

REM Remote switch, connects to your source remote turn on wire, this will turn on your amplifier when you source unit is powered on, like wise turn it off when the source unit is powered off.

GND Connect this wire directly to the battery negative terminal, make sure your connection is free of any dirt or grease. keep the connection wire length as short as possible.

B. Power signal output terminal

C. Sound source signal input terminal

(high level signal input/ low level signal input).

D. High pass / Low pass filter switch

When switched to HP, all low frequencies will be omitted.

When switched to LP, all high frequencies will be omitted.

E. Filter switch

HP: High pass filter; **FLAT**: Full range band; **LP**: Low pass filter.

F. Sensitivity switch (min: minimum / max: maximum)

G. Power on/off indicator

H. 2CH/4CH input selector switch

2CH: Select this option if you are using the amplifier mono bridge (2 speakers), this will provide the combination power of both channels into 1, keep impedance to no lower than 4 ohms.

4CH: Select this option if you are using the amplifier stereo (4 speakers), this will provide equal power to all the channels at the same time. Keep the impedance to no lower than 4 ohms.

FEATURES

- Advanced IR full range Class D
- Mini and water proof
- IPX7 rated
- SMD with 4 layer fiberglass PCB design
- Multiple protections (thermal/over current/short circuit)
- Adjustable/selectable HP/LP frequency control

SPECIFICATIONS

APTV-500.2

- Amplifier Power: RMS 50Wx2 (4 Ω) (fo=1KHz THD+N=1%)
- High Pass/Low Pass Filter: 12dB/oct
- THD: $\leq 0.08\%$
- Frequency Response: 20Hz-20KHz
- Input Range: 250mV-10V
- Signal to Noise: ≥ 90 dBA
- Working Voltage: DC14.4V (Voltage Range 10-16V)
- Dimensions: 192mm x 89mm x 40mm

APTV-1000.2

- Amplifier Power: RMS 100Wx2 (4 Ω) /160Wx2 (2 Ω)
320Wx1 (4 Ω Bridge) (fo=1KHz THD+N=1%)
- High Pass/Low Pass Filter: 12dB/oct
- THD: $\leq 0.08\%$
- Frequency Response: 20Hz-20KHz
- Input Range: 250mV-10V
- Signal to Noise: ≥ 90 dBA
- Working Voltage: DC14.4V (Voltage Range 10-16V)
- Dimensions: 192mm x 89mm x 40mm

APTV-600.4

- Amplifier Power: RMS 60Wx4 (4 Ω) /100Wx4 (2 Ω)
200Wx2 (4 Ω Bridge) (fo=1KHz THD+N=1%)
- High Pass/Low Pass Filter: 12dB/oct
- THD: $\leq 0.08\%$
- Frequency Response: 20Hz-20KHz
- Input Range: 200mV-10V
- Signal to Noise: ≥ 90 dBA
- Working Voltage: DC14.4V (Voltage Range 10-16V)
- Dimensions: 217mm x 89mm x 40mm

APTV-1000.4

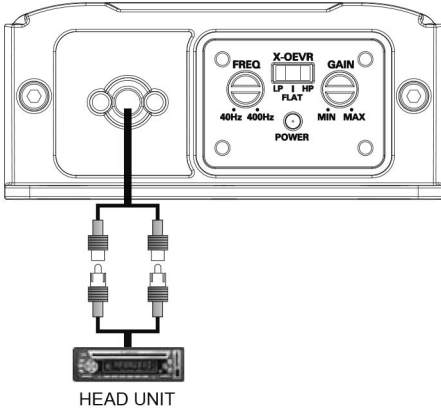
- Amplifier Power: RMS 100Wx4 (4 Ω) /150Wx4 (2 Ω)
280Wx2 (4 Ω Bridge) (fo=1KHz THD+N=1%)
- High Pass/Low Pass Filter: 12dB/oct
- THD: $\leq 0.08\%$
- Frequency Response: 20Hz-20KHz
- Input Range: 250mV-10V
- Signal to Noise: ≥ 90 dBA
- Working Voltage: DC14.4V (Voltage Range 10-16V)
- Dimensions: 277mm x 89mm x 40mm

AMPLIFIER RCA INPUT CONNECTION DIAGRAM

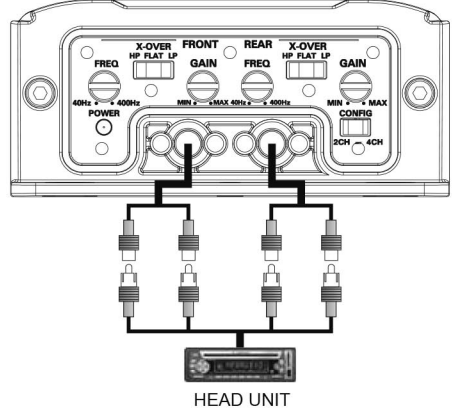
- L- White & Black
- L+ White
- R+ Gray
- R- Gray & Black
- FL+ White
- FR+ Gray
- RL+ Green
- RR+ Purple

- FL- White & Black
- FR- Gray & Black
- RL- Green & Black
- RR- Purple & Black

APTV-500.2/APTV-1000.2



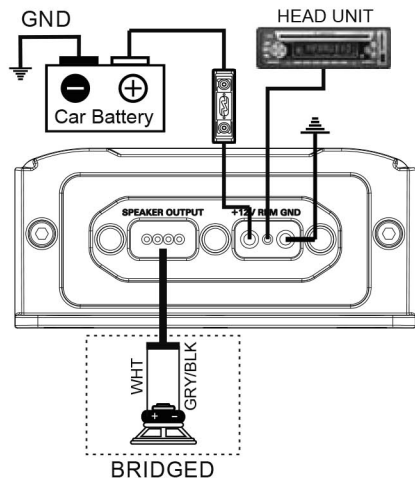
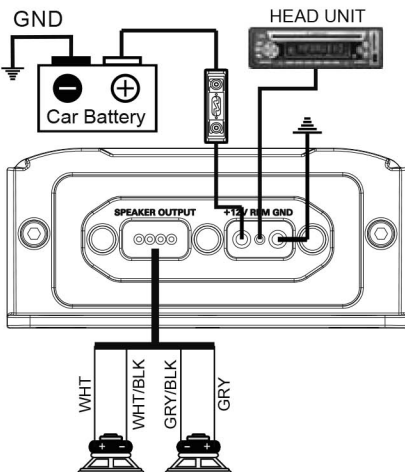
APTV-600.4/APTV-1000.4



SPEAKER CONNECTION DIAGRAM

- L- White & Black
- L+ White
- R+ Gray
- R- Gray & Black
- FL+ White
- FR+ Gray
- RL+ Green
- RR+ Purple

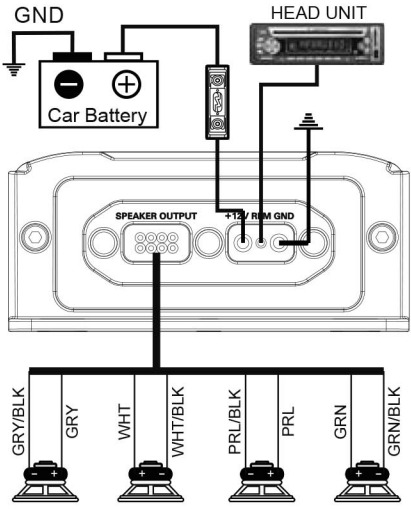
- FL- White & Black
- FR- Gray & Black
- RL- Green & Black
- RR- Purple & Black



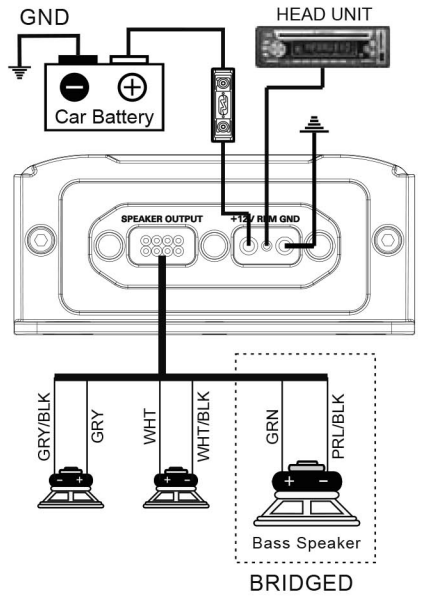
Note: Working impedance: $\geq 2\Omega$

Note: Working impedance: $\geq 4\Omega$

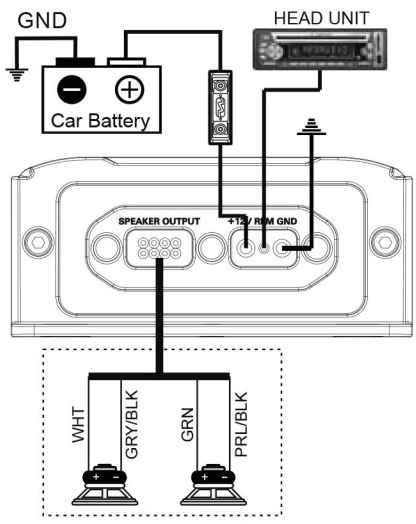
APTV-500.2/APTV-1000.2 (APTV-500.2 can't be bridged, APTV-1000.2 can be bridged)



Note: Working impedance: $\geq 2\Omega$



BRIDGED



BRIDGED

Note: Working impedance: $\geq 4\Omega$

APT-600.4/APTV-1000.4